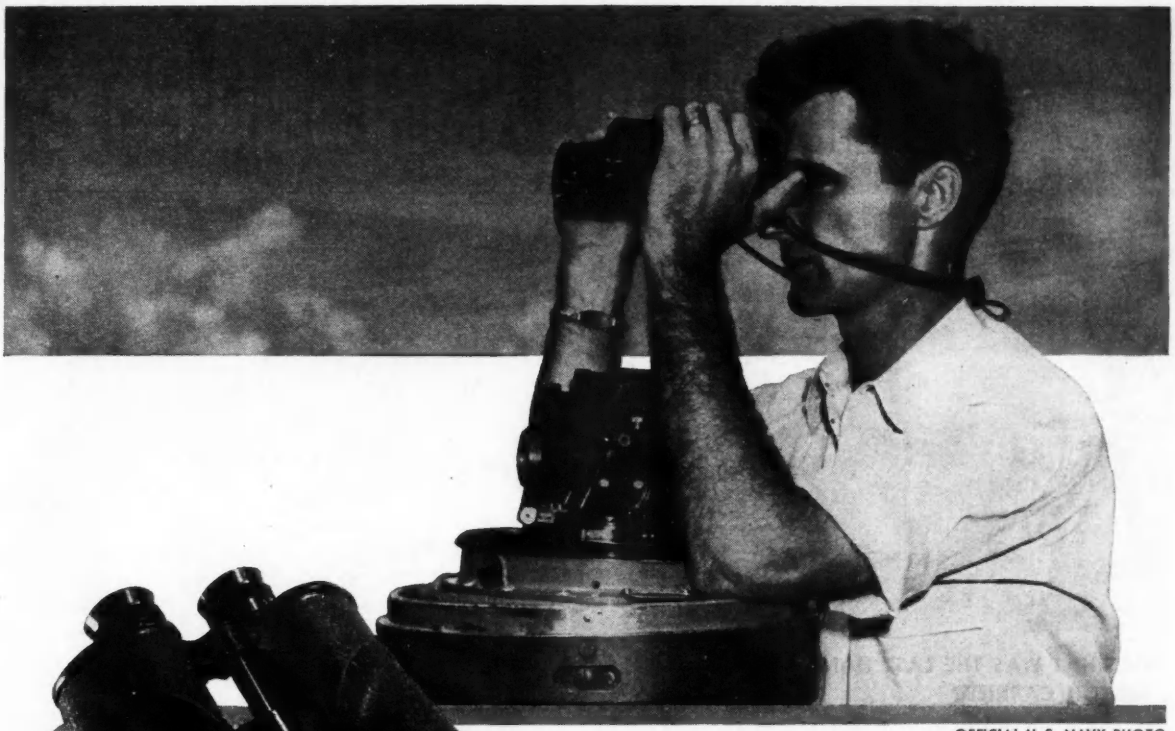
AMERICAN RIFLEMAN

Mr. Robert J. Spahr
944 Ridgewood Dr.
Highland Park, Ill.
2-7-40-30-65

Keep Right at the Blood Bank
HOW LONG IS THE RED CROSS BLOOD BANK TO BE IN TOWN?
JUST ONE MORE DAY. THEIR QUOTA IS ALMOST FILLED.
WHAT TIME IS OUR CLUB'S APPOINTMENT TO DONATE BLOOD?
MUDDY BOTTOM IS DUE THERE IN HALF AN HOUR. EVERYBODY HERE AND READY TO GO?
HEY SLIM—ARE YOU GIVING A PINT OR GETTING SOME?
ONLY THING I AIM TO GET IS A REAL PURTY NURSE!
MY WIFE'S BEEN HERE SIX TIMES. SHE SAYS IT'S OVER BEFORE YOU KNOW IT.
TWO MORE TRIPS AND SHE'LL BE A MEMBER OF THE GALLON CLUB!
WE JUST FINISHED. NOW WHAT?
EACH OF YOU GETS A DONOR BUTTON
AND FREE SOUP!
THIS TOPS THEIR QUOTA!
HOW ABOUT IT, SHOOTERS? GIVE A PINT TO SAVE A LIFE!
PETERS
Rifle and Pistol Ammunition
PETERS CARTRIDGE DIVISION, Remington Arms Co., Inc., Bridgeport, Conn.
"Police Match" is a trade mark of Peters Cartridge Division.
POLICE MATCH
Ammunition



OFFICIAL U. S. NAVY PHOTO

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7x, 50mm Binocular

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Through "hard coating" treatment of binocular lenses and prisms, Bausch & Lomb has achieved a 50% reduction of light loss due to surface reflections. Thus, the handicaps of poor light conditions are minimized —brighter, more clearly defined images are assured.

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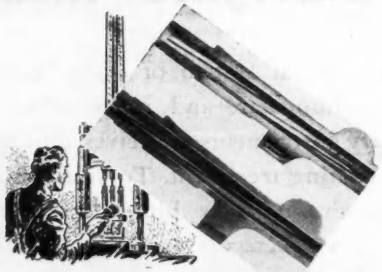
Do you Know your HANDGUN HISTORY?

Q: WHAT WAS THE LAST HANDGUN WILD BILL HICKOK CARRIED?

A: Among Wild Bill Hickok's favorite guns was his 6-shot Smith & Wesson .32 Rim-Fire Revolver. He carried this gun on many occasions and it was with him on the luckless day when he forgot to observe the gun-fighter's first rule—"Always sit with your back against a wall." Jack McCall, a hired killer for the Deadwood City toughs, shot Hickok from behind before he even knew he was in danger.

Q: WHAT IS THE SAFEST HANDARM MADE?

A: Authorities seem to agree that the Smith & Wesson Safety Hammerless Revolver is far and away the outstanding revolver of its type. Its double safety feature makes firing by children and accidental discharge practically impossible, and although hundreds of thousands have been in use since it was introduced in 1888, no accidents have been reported to the company.



Q: WHY DID SMITH & WESSON INTRODUCE ITS SPECIAL "LEADING OUT" PROCESS?

A: Perfection has always been the keynote of Smith & Wesson manufacture, and, even though it costs the company more, for many years the rifling of all S & W barrels has been polished to a mirror-like surface by a special leading-out operation. This extra care is used by rifle manufacturers on their most expensive target models, but you get it in every Smith & Wesson.

WATCH
SMITH & WESSON
SPRINGFIELD 2, MASS.
FOR FIRSTS IN FIREARMS

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FROM THE PROVING GROUNDS OF TODAY'S BATTLEFIELDS — GREATER GUNS FOR YOU TOMORROW

From a painting by Wesley Dennis

THE TEXAS RANGER

Two-time holder of the National Free-for-All Championship, and winner of so many others that he has been given the unofficial title of "World's Record Holder of Quail Championships." White and liver pointer dog by Rex's Tarheel and Miss Nellie Knollwood. Owned by D. B. McDaniel.

Even during these years of war-handicapped hunting, dog fanciers are continuing to breed the finest lines of field dogs—dogs which will do their part in showing hunters good hunting through peaceful fields in years to come.

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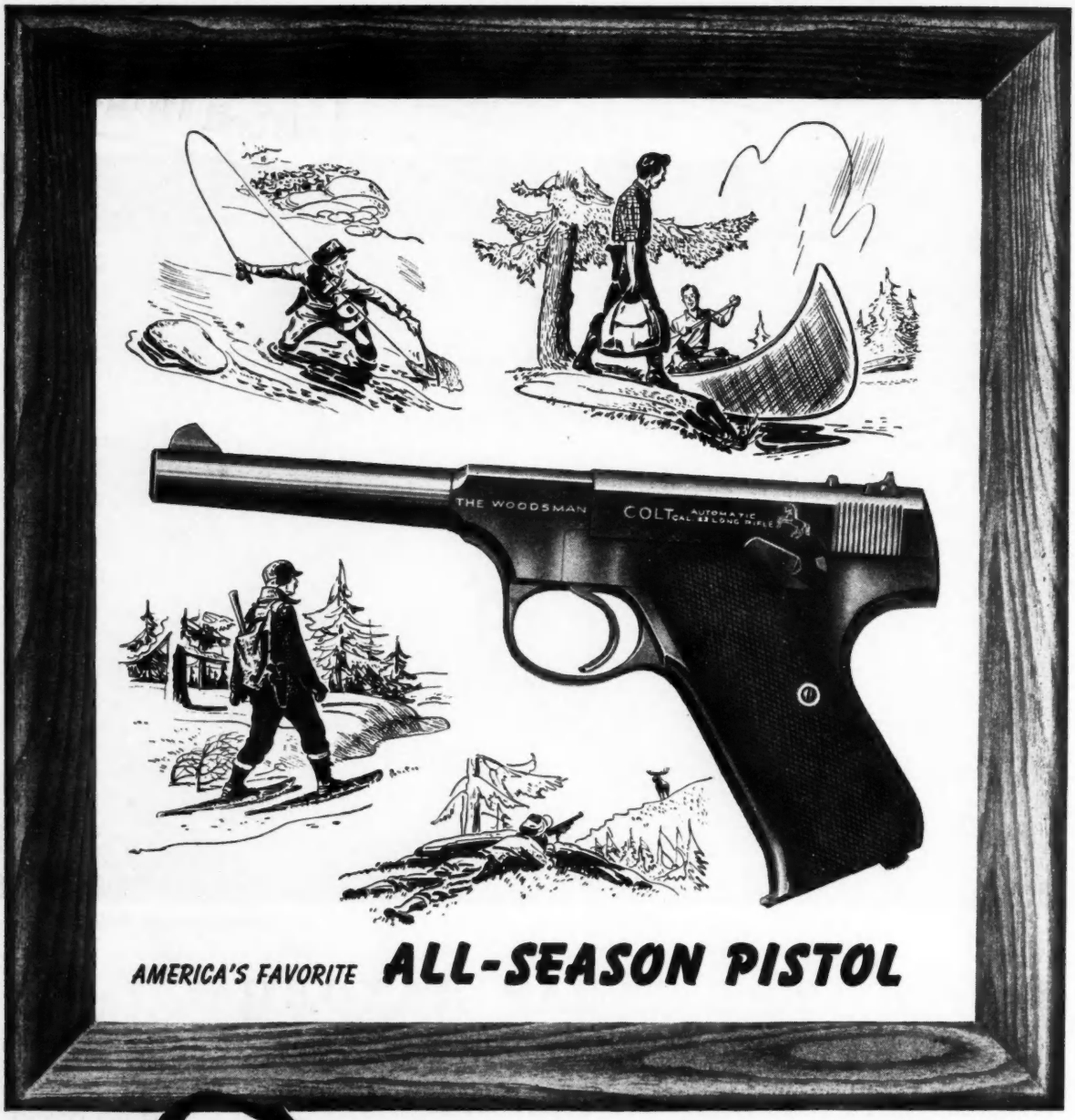

AMERICA'S FAVORITE **ALL-SEASON PISTOL**

COLT SPORT MODEL WOODSMAN

Caliber .22 Long Rifle *(4½ inch barrel)*

The Sport Model Woodsman with its short 4½ inch barrel is the favorite for general use... in the woods and on the trap line. It fits snugly into hip or shoulder holster. Draws easily because of ramp front sight. The comfortable Woodsman grip fits any size hand. It is perfectly balanced and accurate. Its 10-shot magazine, smooth action and positive slide safety lock all contribute to making this the top pistol for all-around use.

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Other Popular Woodsman Models

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COLT'S PATENT FIRE ARMS MFG. CO., HARTFORD, CONN.

An Editorial

Face the Facts

AS a nation we face serious problems. We have mastered problems just as serious in the past. Let that fact sink in! The current crop of calamity howlers are either ignorant of American history, lacking in respect for the ability of America's younger generation, or seeking to create a hysteria out of which they can grab personal power to "save America" from its latest "terrible crisis."

Most of us are primarily concerned with the serious business of providing for our families. Personal problems loom so large we "can't see the forest for the trees." Each of us hacks away at the trees which seem to block our personal path. With enough of us thus cutting personal cordwood we can destroy the forest. We could find ourselves in a desert waste with a whole new set of problems worse than the original ones.

The wise citizen climbs a hill and looks over the whole forest before he sets out on his journey. He doesn't get lost in the trees. He progresses with a minimum waste of time, timber, and energy. He doesn't solve one problem only to find himself in a worse mess.

Politicians have always recognized the ease with which discussion of major problems could be avoided by mentioning personal problems currently troubling blocks of voters. This is the brand which sets the cheap politician aside from the statesman. The politician, through ignorance or design, leads his constituents in among the trees so that they will lose sight of the forest. The statesman takes his constituents to a high place where they can see the whole forest and intelligently plan their future course.

No statesman ever preached a doctrine of class against class, religion against religion, section against section. It is the ignorant, self-seeking, or treacherous politician who revels in feeding the fires of class hatred, religious bigotry, sectional jealousy.

It is time we Americans asked ourselves a few courageous questions. We need the moral courage to stop chopping personal cordwood long enough to get away from the trees and take a look at the whole forest. We need to squarely face the fact that the centuries-old pathway of man's attempts at democratic government is strewn with the wreckage of bitter failures. We need to recognize that the only democracies which have survived are those operating with two, and only two, major political parties. *In each party there must be a cross section of all the people from all sections of the country.* Both parties must be loyal to the principles of democratic government and be concerned with the good of *all* the people. Each party serves then as a constant check on the honesty, loyalty, and efficiency of the other. Political debates, though heated, cause no real cleavage among the citizens.

Are Americans going to try to solve their Nation's problems by creating a farmers' party, a capitalist party, a merchants' party, a mechanics' party, an unskilled laborers' party? Are we now to accept the Japanese or German theory that one individual or one group has some God-given ability not possessed by the rest of the citizenry to guide and control our daily lives?

When political parties are organized and campaign in the name and interest of *any* one section or sector of the populace the logical result is the organization of political parties to represent other sections or sectors. Political campaigns become bitter class, sectarian, or sectional wars. The nation, divided, falls apart. It was France's thirty-odd political parties, not Hitler's armies, which dragged the Tricolor into the dust.

The American tradition of two-party government has, like a mighty living forest, sheltered the American people and provided the timber for democratic structures for many men in many places. Before we go further with our chopping of personal cordwood we had best take time out to get away from the trees and study the forest. Otherwise, in trying to solve our personal problems we might ruin the living forest of American democracy and find ourselves a nation divided in the desert wastes of bureaucracy and personal or group dictatorship.—C. B. L.

The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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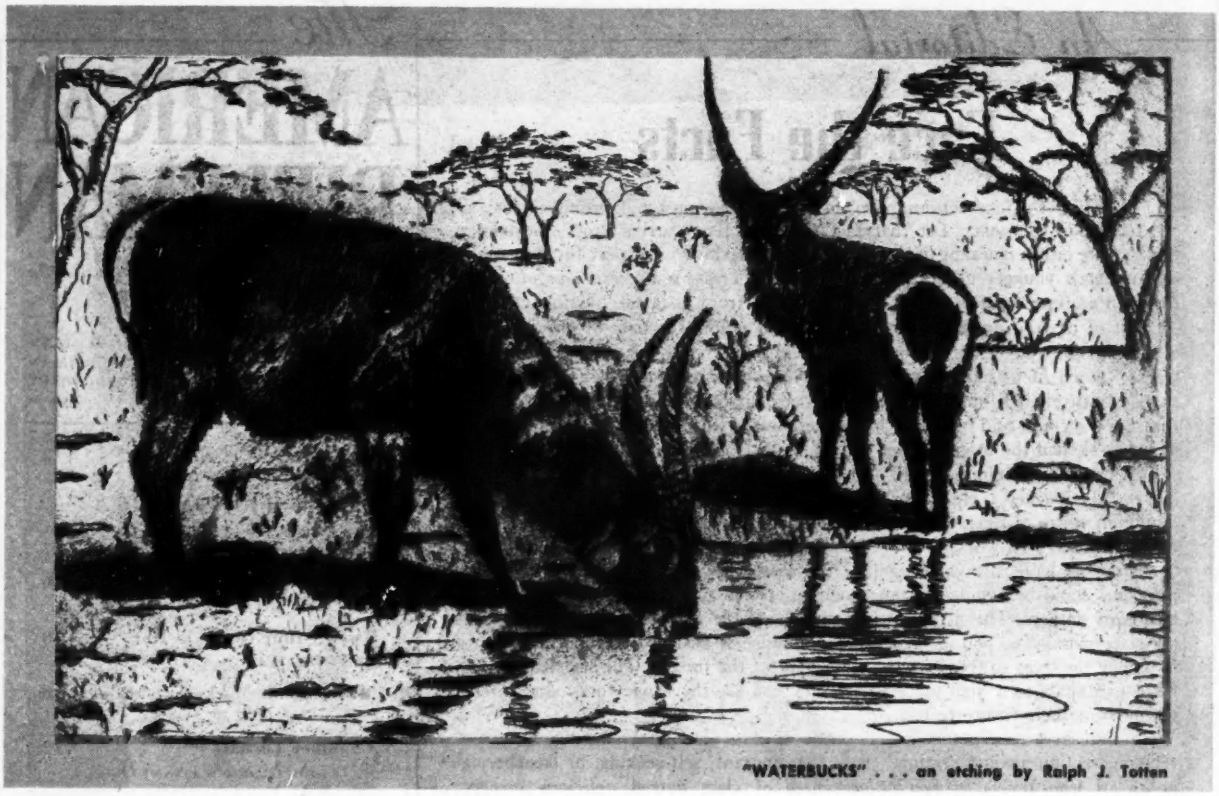


"WATERBUCKS" . . . an etching by Ralph J. Totten

The Rifle in South Africa

By RALPH J. TOTTEN

Here is a mouth-watering glimpse of hunters' paradise, seen through the remembering eyes of a diplomat-artist-author who has hunted big game with many guns on four continents.

BROUGHT UP IN THE SOUTH when the South still had lots of turkeys and deer, and having served in both the Tennessee and District of Columbia National Guard, I've used a rifle of one sort or another since I was ten years old.

In my thirty-odd years in the Foreign Service I've shot deer, antelopes, moose, bear, puma, and jaguar on this hemisphere; royal stags, chamois, roe deer, and wolves in Europe, besides lots of other game. But my real golden era of rifle shooting began in 1926 when I went to Africa and remained there eleven years, retiring as Envoy Extraordinary and Minister Plenipotentiary to the Union of South Africa in 1937.

While there my armament consisted of a .22 Winchester with a Goerz-Certar, 4X sight; a Mannlicher 6.5 mm., with an Austrian Mignon, 4X scope; a Remington Model 30S with a Gerard, 4X scope; a Bock, double-barrel .360-400, fitted with a 4X Zeiss scope; and a Manton double-barrel .470 with a fixed 100-yard open sight and folding leaves for 200 and 300 yards. I also had two 12 and one 20 gauge shotguns, and a hybrid connecting the shotguns and rifles; a German drilling double-barrel, 16 gauge shotgun with a 7mm. rifle barrel underneath.

In the old days Africa, like India, went in for the black-powder 4, 8, and 10 bores, and later for the .600, .577, and .500 expresses; but when elephants became so scarce that one had to walk on an average of fifty to a hundred miles per elephant, and when lighter, high-velocity rifles came into existence, there was a swing to these seven- or eight-pound weapons that the hunter himself could carry. Selous, Stigand, Lyell, Bell, and many other famous elephant hunters, used the small bores such as the 6.5 mm., the 7 mm., and the .303. Their great experience made it possible for them to get within fifty yards or less of the game, at which range those small bullets with full-metal jackets were as successful for the brain shot as the huge, black-powder weapons because of their greater accuracy and ease in handling.

During my stay in Africa the two most popular rifles were the 7 mm. Mauser for small and medium game, and the 9.3 mm. Mauser for the big stuff. The 7 mm. was light, extremely

accurate, quite sufficiently powerful for any thin-skinned game, and was practically without recoil. The 9.3 mm. with the improved Brenneke cartridge seemed to me at that time to be the nearest thing to the all-round rifle that I had seen. It is comparable to the .375 Magnum, Holland and Holland. The ballistics of the two cartridges were as follows:

9.3 mm. (.366 caliber) Brenneke Mauser, rimless	302 gr.	2789 f.s.	5370 f.p.
.375 H. & H. rimless	270 gr.	2720 f.s.	4438 f.p.
.375 H. & H. rimless	300 gr.	2563 f.s.	4375 f.p.

A few of the German Halgar rifles in .280 caliber, and at least one of the .335, were in use in South Africa while I was there. If they came up to their makers' claims, they should have been wonderful game killers. The .280 Halgar, using 180-grain bullet, had a muzzle velocity of 3,043 f.s. and a muzzle energy of 3,690 f.p., while the .335 Halgar, using a 240-grain bullet, developed 3,150 f.s. muzzle velocity and 5,400 f.p. muzzle energy.

The author in full field gear.

The two friends with whom I did most of my South African shooting, especially lion hunting, both used bolt-action .505 Gibbs for thick-skinned game and for following up wounded lions. I don't remember what these rifles weighed but they were lighter than my .470 double.

When I left Africa in 1937, I sold my two double-barrel rifles for almost as much as I paid for them originally. If I'm lucky enough to get back there, I'll take a Winchester Model 70, .375 caliber for big, dangerous game, and a .30-'06 for general use.

In Africa I shot almost exclusively the Western cartridge with the 180-grain hollow-point bullet, and found it the best killer I have ever used. With this cartridge I have killed many head of African game with a single shot.

Returning to camp one morning in Northern Rhodesia, we ran upon a herd of wildebeest feeding quite near the camp. After a short stalk I saw a very good bull standing broadside on at about 120 yards. He was very suspicious and poised, ready to dash off as soon as he made up his mind there was real danger.

I fired at his heart. He gave a tremendous leap forward, fell on his head, driving his horns into the hard ground, and turned a complete somersault, breaking his neck. There he lay, horns still in the ground, head twisted under him, his legs standing straight up in the air. I have never seen such an extraordinary result of a shot, and it brought gasps of amazement from the trackers who were with me.

On one of my visits home I bought a box of Peters cartridges loaded with the then new 225-grain belted bullets, and took it back to Africa with me. With this cartridge I killed three zebras and a lioness, each with one shot. The zebras were shot at distances from seventy-five to 125 yards; the lioness at thirty-five yards. The bullets behaved well in every case. Since my retirement I have killed two bears and two moose with these cartridges. The two bears and one of the moose were killed with one shot each. The other moose required a second shot. Mind you, all of this from the original box of twenty, and I have nine cartridges left. I would call that a pretty good record for any cartridge, yet I still think the 180-grain bullet with its greater velocity is probably best for African shooting, where one sometimes feels compelled to take a fairly long shot.

When I was younger I was quite a bit better than an average shot, but since passing fifty I have had two serious illnesses which have tended to make me unsteady. My success during the last thirteen years in getting many head of big game with one shot is entirely due to the fact that I have made it an absolute rule not to take very long or running shots. In Africa where game is unusually plentiful one can best prove himself not a tenderfoot by refusing to take long, doubtful shots, or to shoot at running game, than by any amount of tall stories around the campfire of one's prowess in other game fields.

The experienced African hunter makes it a positive rule to stalk his game until he is close enough to make it reasonably certain that the first shot will be in a vital spot. That means 125 yards or less. Whenever it was in any way possible, I tried to get as close as eighty yards before firing, and even then sometimes the shot went wrong. Everything I have said about getting close to the quarry is doubly important when hunting dangerous game.

One is almost never able to shoot from the prone position in Africa because of the knee-high grass and short thorn bush. I have made it a habit consequently to do all my shooting from a sitting position with my elbows on my knees. If the land was too thickly grown to see the game when seated, I was never too proud to use the limb of a tree to steady my hand.

That first shot is tremendously important. If it is properly placed, the game is yours. If it is a bad one, breaking a leg, going through the paunch, or striking some other nonvital spot, it means trouble for the hunter and for his companions, and anguish for the suffering beast, possibly for days, so nothing should be permitted to hurry that first shot.

There is another thing about a bad first shot. If the animal is not struck in a vital spot and recovers enough to run away, the next bullets seem to have lost their shocking power, and the poor beast literally has to be shot to pieces finally to bring it down. I once made a fast, half-running stalk of a great bull eland, and fired before I was steady, with the result that I hit him high and too far back. To my chagrin I saw him make off, badly hit, but able to travel faster than I could. We followed him for a long, hot period of hours, during which time I fired some seven shots, six of which were hits, before I was able to finish him, and this was with my favorite, powerful 180-grain hollow point.

Of course, one will shoot at a crocodile from any distance which gives the slightest chance of *(Continued on page 26)*

Twenty-Four Hours

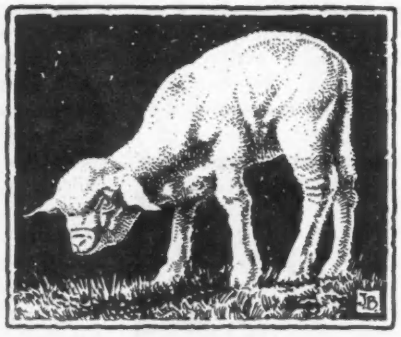
By Pvt. Calvin R. Edwards

NOT SO VERY LONG AGO, *Calvin Edwards was a budding newspaper man on the staff of The Greenville (South Carolina) News. He was also a Sophomore at Furman University.*

Work and classes left him little time to participate in the activities of his local rifle club, but somehow he managed to be responsible for much of the publicity the club received. "He was just learning to shoot 'our way,'" a fellow club member tells us, "when the army took over."

He was then just eighteen . . .

A few months later, former-sophomore, former-newspaper-man Calvin Edwards was Private Calvin Edwards, a machine gunner with the Thirtieth Infantry on the Anzio Beachhead. That was a hot spot for machine gunners! As perhaps you remember, Anzio was for a long time a grim, hang-on-by-your-eyelashes battle.



Some months ago, Private Calvin Edwards was evacuated from the front with a severe case of trench foot. He is now recuperating in a base hospital, where this article was written.

A FAINT HALF-MOON hangs over this flat, bare stretch of no man's land as we move across it toward the German lines. This land is a former quagmire, a wasteland converted by Mussolini in his late program to "restore the grandeur that was Rome." There are no trees, no bushes, only low-growing grass, irrigation canals, occasional haystacks. Mountains in the distance overlook this lowland.

We are spread out in a line so long that I am unable to see either end. We are moving forward with our rifles poised for immediate use. A dark cloud drapes the moon and I have trouble seeing the men beside me. But I know they are still there because I can hear the slight but steady shuffle of their feet. The moon edges into view and the sight of our line is comforting.

A stray lamb from a peasant's flock appears out of the darkness. Its plaintive bleat has a startling effect in the stillness. We are afraid that the lamb will give us away to the Jerries, so we try to frighten it away. But the lamb thinks we are playing and scampers about us, bleating. Then it stops just as suddenly as it started and stands, silent and motionless, watching us move out of sight.

Tension grows. We know we are very close to the Heinies now. We expect the fireworks to start any minute, and they do. A German machine gun opens up on us and we promptly hit the ground. The weapon operates so rapidly that the rattle of individual bullets is lost in the constant buzzing. Tracers whine overhead, making a weird, paralyzing pattern in flight. I don't know whether it helps, but I can judge to the inch how much they miss. And I know that some of them don't miss. Some of them hit men not very far from me, because I can hear someone shouting for the medics.

We are crawling up under the German fire, pausing now and then to get off a shot. We reach a creek and set up our machine guns. We are very close to the Krauts now and we have little protection from their withering fire. We can't back up and we can't go forward, so we give them all we've got, which is probably more than they are throwing at us. This takes some of the sting out of their fire, and it's good to feel that we are hitting back even though we can't see our targets and can only guess as to the effect of our fire. But we still aren't able to cross the creek. We can do nothing but dig in and hold our position for the night.

Rain begins to fall, then sleet. We lie here, cramped and shivering, wet and muddy. The night is a nightmare of flares, artillery shells, automatic weapons. . . . German fire ceases some time after midnight. . . . The Jerries withdraw shortly before dawn, and with the first signs of gray in the sky we are following them. We can't see them, but we know that they are there somewhere ahead of us, or on our flanks. We know they are not behind us.

There is a morbidness in the morning which you can feel but can't explain. You wonder if it can all be real; but you don't wonder for long. The three men who don't get up after this last shell are real. The fragment which scrapes your helmet is real. And the Germans on the hill we are approaching are real. . . .

We halt just before reaching the base of the hill and set up our machine guns. Now our artillery lays in a barrage on the hill. The shells seem to come in a never-ending stream of three's. You can hear them rustling over your head, you can see the puffs of black smoke on the hill and hear the rumble of the explosions. They make your ears ring, though you are not in the danger zone. . . . You are glad you are not in the danger zone. The artillery is really pouring it on.

Now the Krauts are waving a white flag. The artillery cannot be stopped immediately so the Germans continue desperately waving the bunting of truce. After ten minutes or so the Krauts come over the crest of the hill, arms extended grotesquely over their heads, and move obliquely down the hill in single file. I don't count them, but there must be thirty or more, almost a platoon. . . .

We find the hill strewn with bodies and discarded German equipment. Their machine guns still stand in position. Unexpended stick grenades, rifles, boxes of ammunition, helmets,

in Italy

canned rations, blankets, give an unrehearsed air to this fantastic death scene.

After the deafening din of the artillery, this quiet and calm pricks the nerves and fills you with uneasiness. You can't hear a sound; there is no sign of life. Half an hour ago there had been life here, life which sought to take your life. Now death reigns on this bald, muddy knoll and you are walking among the dead.

I start at the sight of a crouching German. Then I see that he isn't crouching but has merely slumped over against the wooden cover of his foxhole when death hit him. His rifle is still cradled in his arms. One leg is doubled up under his body as if he had been kneeling in prayer, the other extends straight out in a stiff, unnatural position. He might have been getting out of his hole to surrender when it hit him.

I move away and another Heinie who I think is dead suddenly sits up just in front of me. My finger tightens on the rifle trigger, but now I see he is unarmed. I can see he is very frightened. He starts talking in German. I catch the word "wounded" which he keeps repeating. Now I see it—his leg and a widening patch of blood in the mud.

A little later an American officer speaks with the wounded man in German. He tells the man that the medics will not be able to take him out until night. You don't have to understand German to know that this does not suit the German. You can see in his face and by the tone of his voice that he is pleading with the officer. But there is nothing the officer can do, so he leaves the man. The medics are on the way to the aid station with our men wounded in the attack. . . .

The calm on the hill ends suddenly when the Germans counter with a fierce artillery barrage. We huddle in our German-dug holes and play the old "waiting and sweating" game. It's rugged. We know now what the Jerries were feeling while our artillery was pouring it onto them. But we aren't as easily routed as the Krauts were. We wait, and sweat.

In the quiet which comes after several bursts, I can hear the wounded Jerry's voice rising and falling in alternate hysteria and calm.

"*Kamerad, kamerad,* help me," he says again and again.

I wonder what he is thinking about those who deserted him. He is caught under his own artillery fire and there is nothing he or anybody else can do about it. . . .

During the early afternoon only an occasional shell explodes on the hill. The wounded German is silent. We give him water and cigarettes and wrap him as best we can with blankets. He is losing a considerable amount of blood, but he is still conscious. He watches us, begging with his eyes. . . .

By mid-afternoon he is moaning weakly but steadily. When a particularly weak moan trails off into nothing, we think he is dead. But a new desperation now seems to take hold of him. He comes out of the trance screaming hysterically.

"*Kamerad,* medics, help," we hear him say over and over. . . .

Finally we try to lift the man and carry him to the aid station, but the pain in his leg is too much for him. There is nothing else we can do; he will have to wait for the litter bearers. . . .

Darkness is gathering over the hill. There is a blinding flash and violent explosion very close to me. The concussion knocks me to the bottom of my hole, temporarily stunning me.

Now I am out of the hole and I hear someone shouting: "That damned Jerry has killed his fool self with a grenade."

I look toward the spot where he has been lying, but in the descending dusk I can't see anything. I don't feel like going any closer.

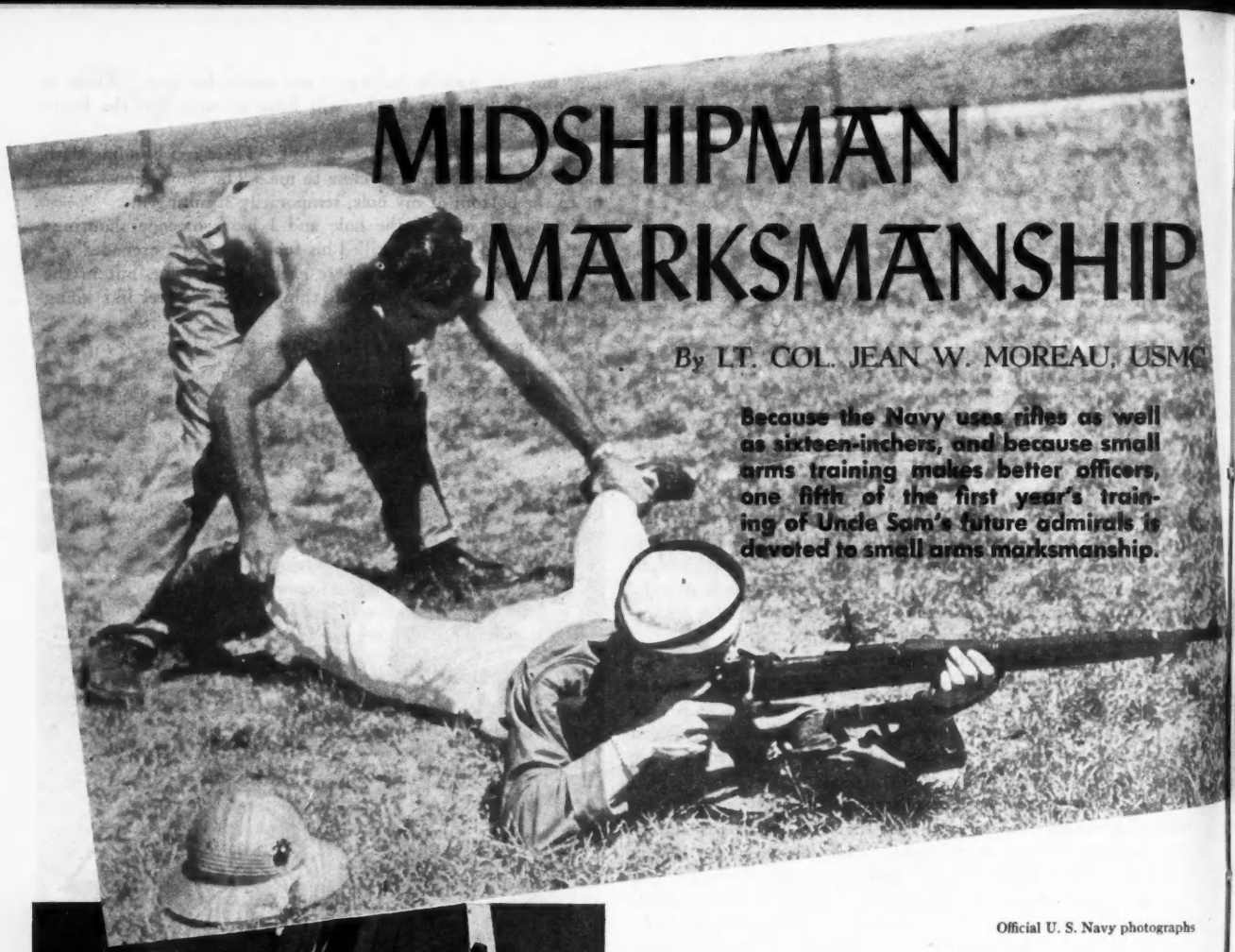
The litter bearers came fifteen minutes or so later. ◆ ◆ ◆

"Tension grows. We know we are very close to the Heinies now . . ."

MIDSHIPMAN MARKSMANSHIP

By LT. COL. JEAN W. MOREAU, USMC

Because the Navy uses rifles as well as sixteen-inchers, and because small arms training makes better officers, one fifth of the first year's training of Uncle Sam's future admirals is devoted to small arms marksmanship.

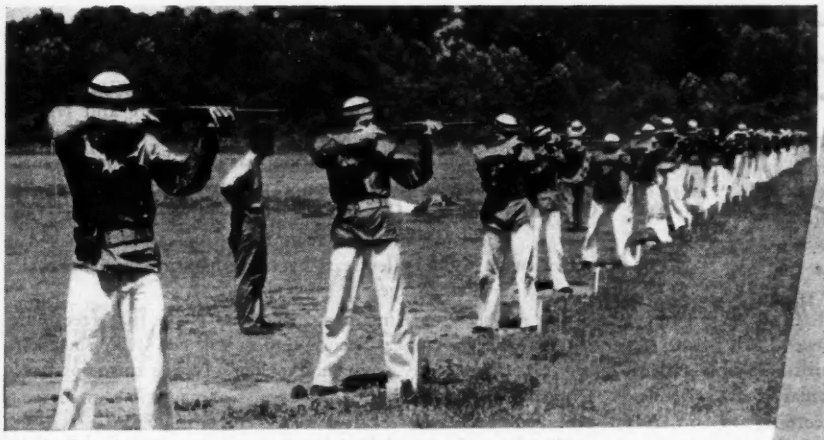


Official U. S. Navy photographs

THE OBJECT OF ALL TRAINING at the United States Naval Academy, at Annapolis, is to develop efficient officers for the world's largest fleet. Fundamentally, a naval officer fights with the armament of his ship; with the big guns. Few people think of small arms in connection with the Navy; yet, in spite of the fact that the course of instruction for midshipmen has been accelerated from four years to three, and in spite of the fact that more time must be devoted to recent gunnery developments and innovations, the midshipmen's schedule today includes the same amount of time on small arms as under the four-year course. During the midshipman's first (plebe) summer, during which he receives training in basic fundamentals, approximately 20 per cent of his time is spent on the rifle range.

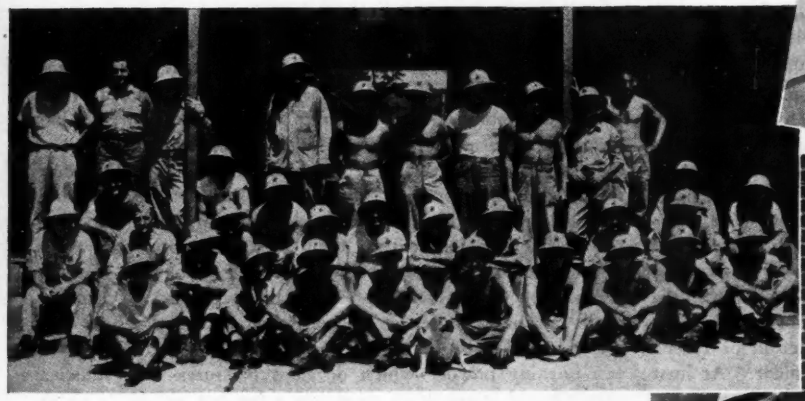
The Naval Academy rifle range is situated across the Severn River from the Academy itself. It consists of three separate rifle ranges, three separate pistol ranges, a .22 caliber outdoor range, a trap range, a skeet range, an armory building, a classroom building, and numerous magazines. Instruction is given under the Department of Ordnance and Gunnery, under the supervision of the Marine officer attached to that department. There are eight naval officers and thirty enlisted Marine coaches who assist in carrying out the training program.

The schedule of instruction in small-arms firing is divided into twenty three-hour periods, each midshipman attending a maximum of two such periods a week. Since all plebes, as new



Each plebe fires Navy Course A: ten shots Slow, prone; ten shots Slow, sitting; and two five shot strings Rapid, prone—all at 200 yards. Ninety-nine per cent qualify Marksman or better

Lt. Col. J. W. Moreau, USMC



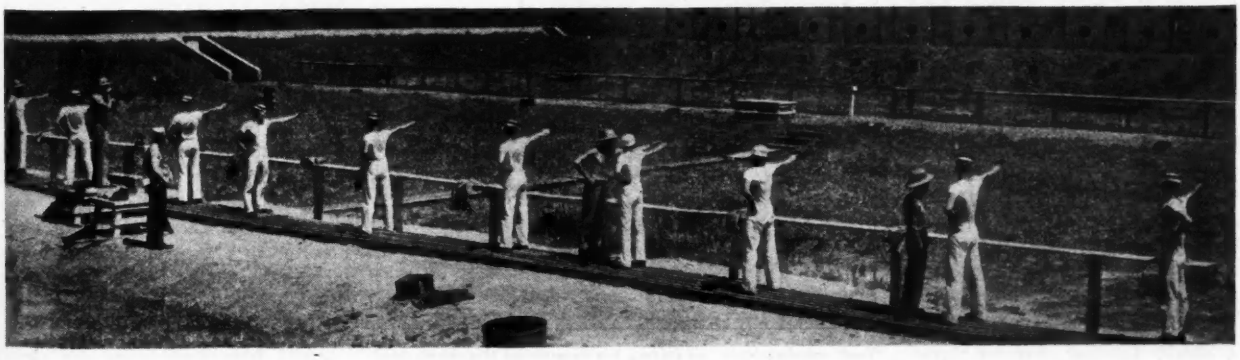
Range personnel at the United States Naval Academy, summer term, 1944.

midshipmen are called, do not enter the Academy at the same time, each new arrival is issued a small notebook to be used as his "Rifle Range Log." After each period on the range, the instructor orders each student to make a given entry in his log: "Completed First Period," or "Repeat First Period," as the case may be. Thus the fact that a given midshipman enters late or is absent from one or more training periods need not upset his progression through the course. The system affords a chance for students to repeat those periods that they fail to master.

The Navy has not adopted the M1 rifle, so rifle instruction is based on the Springfield M1903. Following the qualification

(Continued on page 27)

Coach initiates two plebes in the use of the "winter sighting device." Standard basic marksmanship training program is followed throughout.



CHAMBER THROATS

By

LUDWIG OLSON, *Warrant Officer, U. S. A.*

IN THE YEARS since high-power rifles with smokeless powder and metal-jacketed bullets became popular, two controversial schools of thought have developed concerning the throating of barrel chambers. This is hardly surprising when it is considered that interior ballistics offers more complicated, intangible factors with varying interpretations and ramifications than almost any other science.

One type of throating is termed the "free-bullet-travel" system in which the bullet has to jump a comparatively long distance from its position in the cartridge case before contacting the long, funnel-shaped surface of the bullet seat. It is used by British, German, Austrian, and possibly some other foreign rifle manufacturers. The other system of throating is used by American manufacturers, and consists of a short, more steeply inclined bullet seat which the bullet almost touches when the cartridge is chambered in the barrel.

In the British "Textbook of Small Arms" (1929 issue), the one-fourth-inch free bullet travel used in chambering the .303 Lee-Enfield rifle barrel is mentioned, and reduction of breech pressure is the reason hinted at for its employment. At least one German Arms technical publication of the early 1900 period briefly mentions free bullet travel, and claims reduction of breech pressure and recoil along with an increase in accuracy as advantages of the system. Modern German ammunition catalogs and the German D. W. M. Company's ballistics book, "Cartridges and Shooting," also recommended a certain amount of free bullet travel, and directions are given for easily determining its measurement. Like the British Lee-Enfield, the great majority of German sporting and military barrels have approximately one-fourth-inch free bullet travel. Naturally, this distance is slightly changed when ammunition is used which has a different shape or size of bullet. The majority of American barrels have the comparatively tight chamber in which the bullet jumps only one-thirty-second of an inch from its position in the cartridge case forward to the chamber throat.

Free bullet travel offers less resistance to the forward motion of the bullet and thereby prevents excessive breech pressure. When employed in conjunction with a long, gradually tapering chamber throat, it also greatly reduces friction between barrel and bullet during the critical period from the time the bullet leaves the cartridge case until it is engraved by the lands. These facts cause the writer to believe that this reduction in pressure and friction decreases barrel *vibration*, and thereby increases accuracy. This means of reducing barrel vibration was probably a development resulting from barrel-vibration experiments conducted by the German professors, Cranz and Koch, during the early 1900 period. The same increased accuracy effect can be achieved in barrels with tight bullet seats by using cartridges with slightly reduced powder charges.

The majority of American authorities claim that free bullet travel reduces accuracy because bullets will not strike the chamber throat uniformly from shot to shot. While this is probably true to some small extent, its effect is of negligible importance provided the amount of free bullet travel is not excessive.

The long funnel-shaped throat in a properly made free-bullet-travel chamber acts as a self-centering bullet guide which solves the problem of properly aligning bullets with the bore. The real reason why many American shooters get poor accuracy with the free-bullet-travel barrels is that slower-burning powders are used than the barrels were designed to use.

The development of uniform pressures from shot to shot is one of the most important factors affecting accuracy of guns. Free bullet travel in combination with a long funnel throat does not provide sufficient resistance to the bullet's forward motion to burn properly slow-burning American high-power rifle powders within their established pressure ranges. When a powder is burned below its pressure range, its irregular combustion causes erratic pressures and velocities. Quite naturally, accuracy suffers. To get proper accuracy results with a free-bullet-travel barrel, it is necessary to use a comparatively fast-burning powder which develops pressures with sufficient rapidity and strength to compensate for less resistance to the bullet's forward motion.

British companies use double-base powders containing nitroglycerine to achieve a fast-burning rate. German firms prefer a cooler-burning flake-cut nitrocellulose of rather small-grain size which burns quite rapidly in spite of its less potent chemical composition. In this connection it might be mentioned that, generally speaking, it is best to use British or German ammunition in barrels having free bullet travel. The comparatively fast-burning powders in such ammunition insures proper development of pressures with resultant good accuracy.

Handloaders can load cartridges with comparatively fast-burning powders in order to achieve the same favorable results. It is also well for shooters to remember that the inertia of a heavy bullet aids considerably in the development of pressures, and therefore should be a factor in choice of ammunition for the free-bullet-travel barrel in cases where only slow-burning powder is available.

There have been many contro-

"Yeah, monkey-face! Us snipers are accurate at *this* range, too!"

versies as to whether or not free bullet travel affects muzzle velocities. With slow-burning American powders free-bullet-travel barrels will not only produce lower-than-standard velocities, but erratic pressures and velocities as well. With faster-burning powders of proper grain size, shape, and composition, free-bullet-travel barrels give high velocity with comparatively low breech pressure. This favorable ballistic condition is the result of peak pressures being reached *after* the bullet is in motion and some distance through the bore. Slow, progressive-burning powder in a barrel with tight enough chamber throat to insure proper combustion achieves a similar effect.

Controversies also exist concerning the accuracy life of barrels employing free bullet travel. Some shooters contend that the free-bullet-travel barrel is already worn out when factory new. Such a contention is true only when slow-burning powder is employed in such barrels. If the proper propellant is used, the accuracy life of free-bullet-travel barrels is quite the equal of barrels with tight throats and steep angled "leads." As a matter of fact, the long funnel throat, which greatly eases the problem of bullet engraving or "forcement," does not wear out as rapidly from bullet abrasion and friction as the steeply inclined tight throat. In addition, the use of faster-burning powder insures longer barrel life because it has a much wider burning range or "tolerance" than slower-burning propellants. This aids in proper development of pressures even though the bullet seat be eroded and worn.

The high lands of British and German military barrels (.0065" average height) also extends barrel life by offering more resistance to the bullet's forward motion and thus aiding in proper combustion of the powder. To offset these advantages somewhat, the tight bullet seat insures better bore obturation and minimizes gas leakage around the bullet. It might be mentioned here that a fast-burning powder is of definite military advantage in that it produces much less muzzle blast and flash, along with a slight reduction in recoil. It might also be stated that free bullet travel prevents the maximum-size or incorrectly shaped bullet ogive from contacting a minimum-size chamber throat. This eliminates the possibility of the bullet-seating depth becoming increased upon closing the rifle breech. It also prevents such an oversized bullet from sticking to the lands and causing separation of cartridge case and bullet when a live round is extracted.

As a miscellaneous item it is well to note that the 7 x 57 mm. Mauser and possibly some other German rifle barrels do not employ the free-bullet-travel system for cartridges with the heaviest round-nose bullets. The most likely reason for this is that the more popular, shorter, lighter bullets in the same barrel will have the proper amount of free bullet travel.

As regards comparative merits of tight and free-bullet-travel chambers, it seems to the writer that both are equally satisfactory provided they are understood, and that each type is used only with ammunition and ammunition components for which it is especially adapted. ♦ ♦ ♦

ANOTHER OF "THE MEN OF PERRY"

MASTER SERGEANT ODDIS L. LOWE, of the United States Army, fires the M1 Garand rifle and the .45 caliber service pistol so fast and so accurately that the Army chooses not to show his feats in training films. He performs with such ease that the War Department fears that impressionable recruits of only average ability might conclude that anyone can do likewise without half trying!

In his "Mad Minute" of firing, Sergeant Lowe goes from standing to prone and fires forty-eight rounds from a Garand rifle in sixty seconds or less. His average for the forty-eight shots in one minute is forty-five bull's-eyes and three fours. About every fifth time he shoots a perfect score.

With the service pistol, he fires fifty rounds per minute at twenty-five yards, using an "E" silhouette target. His scores here are comparable to those he chalks up with the rifle.

As a matter of fact, Sergeant Lowe says that there are no born marksmen. He started shooting at the age of seven, with squirrels as targets. But he doesn't give boyhood hunting credit for his present skill, or for winning him the title of "Distinguished Marksman." He says, "It's all a matter of learning simple fundamentals."

Top enlisted man in the M1 Rifle Group at The Infantry School, Fort Benning, Georgia, Sergeant Lowe demonstrates his technique to students and has fired demonstrations for Secretary of War Stimson, Secretary of Treasury Morgenthau, generals from Russia, generals from South America, "and everybody in our own army above the grade of Corporal!"

In the Army twenty-three and one-half years, Sergeant Lowe calls Palestine, Texas, his home. He was born in Catchings, Mississippi. He has won 154 medals in State and Army Service Command Area Matches; was a member of the National Rifle Teams of 1930, 1931, 1935, 1936, and 1937; was assistant coach in 1938 and coach in 1939 and 1940—the only enlisted man ever to coach the Infantry's entry in the matches. The Lowe-coached teams won in 1939, took second place in 1940.

War Department rules governing Distinguished Marksman honors require that a soldier compete in national individual or team matches and place among the top ten in order to earn one "leg" medal. Three "leg" medals win him the Distinguished Marksman title. Sergeant Lowe has thirteen "leg" medals to his credit. He is a Distinguished Marksman four times over—one "leg plus."

Pictured above is Sergeant Oddis Lowe himself, inspecting a sample target after one of his "Mad Minutes." ♦ ♦ ♦

Shooting the Cap-lock Shotgun

By LIEUTENANT G. R. HUNTER

LIKE STYLES IN DRESS, styles in guns change but old favorites remain or else return to popularity. Today, muzzle-loading arms are in demand again, not merely as collectors' items but as sporting weapons for actual use. They are being used in surprising and ever-increasing numbers by shooters everywhere, on all kinds of game from upland birds to deer.

The cause of this trend has been twofold: Some shooters, even before the war, had tired of "issue" ammunition and, in order to give full play to their own inventiveness and ingenuity, turned to the muzzle-loaders. Second, war and wartime conditions cut off normal supplies of ammunition and it was a case of finding new-old outlets for the shooting urge.

Because 99 per cent of all muzzle-loaders now being used are cap-lock guns, it is in this field that most of the very few instruction books have been written; but these refer almost exclusively to the rifle, and most hunters using muzzle-loaders today are using shot guns. Hence this article, in the hope that my own experience may be of value to other muzzle-loading-shotgun hunters.

First, since it is most important, let us consider safety; and, under safety, let's consider first the safety of the gun itself. It is often impossible to tell from the exterior appearance of a muzzle-loading shotgun either its age or its inside condition. Its outside appearance will give some clue as to its sturdiness, but beyond that we must guess. Certain steels have a tendency to change their physical properties with age, becoming brittle and dangerous. Also, many of the old guns have Damascus, twist, or laminated barrels. Such barrels will stand black-powder loads if handled intelligently, but—

Before shooting one of the old guns at the shoulder, it is best to test fire it. As good a way as any is to find some fairly soft ground by a woven-wire fence; put the gun butt on the ground, with the barrels securely through a mesh of the wire, pointing up in such a manner that the recoil will come back directly on the earth beneath. First, fire a "squib" load—about half an ordinary charge—and inspect the breakaway, etc., to see if signs of powder burns show weak or loose spots. If no weaknesses show, load about a dram more than the recommended charge for that gun, and shoot it the same way. Repeat this procedure with the other barrel if it is a double-barrel gun. Each time, fire the gun by tying a string to the trigger, leading it down through one of the lower wire meshes of the fence for leverage, and pulling the string from behind a tree at a safe distance. If these last heavy proof shots leave no sign of trouble, then you may assume the gun is safe with any normal load.

But there are other safety factors to be observed. For example: With a double-barrelled gun, after you have fired only one barrel, be sure to remove cap from the unfired barrel before reloading the spent barrel. That other hammer may have been left cocked, and even if it were not, old guns are tricky. Loading a spent barrel while the other is left primed has cost fingers and sometimes lives.

Again: Remember that in loading, a few grains of powder will often stick to the nipple cavity after falling through the tiny channel in it. This is especially noticeable where the nipples are fairly old and the channels have been burned oversize by long use. Unless this loose powder is blown away before firing, the burned grains often fly back into the shooter's face, causing tiny but painful burns. Too, even the best hammers sometimes allow small pieces of brass from the fired cap to fly back into the face and eyes of the shooter. In view of these traits of the weapon, it is expedient to wear shooting glasses; common eyeglasses, or ordinary sunglasses, will do in a pinch. The small bits of metal are too light even to scratch the glass. . . . Or—one can make a protecting cup, held in place by the nipple, with a notch through which the hammer falls, which will deflect all flying particles forward safely. One or both of these precautions should be taken.

Black powder of any grain, or King's semismokeless, is all right to use in these guns. Generally speaking, the finer grain powders will give greater breech pressure, although they do not speed up your shot load to any appreciable extent. I have found that Fg or FFg duPont are best. In no case use smokeless powder of any kind! Do not salvage old shotgun shells loaded with smokeless, or use any kind of powder whatsoever except those recommended above. No emergency can excuse failure to heed this warning for the old guns just will not stand the breech pressures of smokeless powders. (For that matter, neither will the percussion cap usually ignite it.)

If only for the sake of comfort, be sure the gun is tight. Particularly, be sure the stock is solid and tight or it will shoot loose quicker, and will kick like a mule! Hammers should be

Good hunting weapon then . . .

—and now.

Simplified and Reprinted by special permission of "Muzzle Blasts" (Feb., 1944)

checked for security, or they will blow off and be lost, especially if the nipples are not screwed in firmly.

If your gun has a safety, or half cock, check to be sure it will not let the hammer down on the cap, even with a moderate blow. If you have no safety, never let the hammer rest on the cap while hunting. Carry the gun with the hammers full cocked, but with the gun unprimed, holding the two caps ready in your hand.

I will not guarantee any specific charge for loading the guns, but it has been my experience that three and a half drams of powder behind one and one-eighth ounces of shot is the best standard loading for a 12 gauge gun; proportionate loads for other gauges. If there is any doubt about the gun, better try three drams first, with one ounce of shot. If this proves satisfactory, stick to this loading. I do not believe in cramming in all the charge old Betsy will take, for it will kick viciously and you will find yourself flinching so badly that you can't hit. Keep the charge as low as possible consistent with the killing power you need. Very low or very high charges usually scatter the pattern; more normal loads give consistent patterns.

The inside of the bore must be smooth if good patterns are to result. Whether or not it is smooth can be told by the loading. If the wads go in easily, it is probably smooth enough. If it feels rough, if the wads seem to drag in spots and it becomes difficult to ram charges down—then you need to work on it. Use your ramrod, and wrap some cotton around the end of it—enough almost to fit the bore. Over this, sew a cover of emery paper with the emery side out, so that it fits fairly tightly in the bore. Swab the bore with this, using a little light oil or water for lubrication, and flush out the bore every few strokes to remove the sludge. In a surprisingly few minutes the bore will be smooth. You can leave it as is and let the lead from shooting do the rest, or you can smooth it further with crocus cloth.

Commercial wads are best. One size above the gauge should be used i.e., use 10 gauge wads in a 12 gauge gun, so they will be tight under pressure. Use a felt wad over the powder, and either felt or cardboard over the shot. Other wads may used, but never use cloth. It smoulders and may set the woods afire. So will many kinds of paper. If you must use paper, use a resilient kind. Common toilet tissue is best, three sheets on top of the powder charge, two sheets on top of the shot.

In loading, leave the hammer down, pour in your powder, follow this with the heavy wad, and tamp by "throwing" the ramrod down on it. When the ramrod will bounce cleanly from being thrown against the wad, the charge is tamped just enough. Heavy metal rods will tamp tighter than light ones. The tighter you ram the charge, the more kick you get, the more breech pressure, and the more velocity up to a certain point. But for uniform shots and any decent consistency, tamp until the rod will bounce once, cleanly. The wad holding the shot in the barrel should never be rammed, but just seated firmly so that the shot will not fall out.

Muzzle guns do not kick badly as a rule. Due to the exaggerated stock pitch, some of them do kick smartly. But they usually kick less than breech-loaders because they weigh more and are loaded more lightly.

Your barrels may look too long—especially to some amateur gunsmiths. Cut them off if you wish, but do not expect a miracle. Most barrels when cut off more than about four inches become true cylinder bore; and the bore will never give constant patterns except through sheer luck, as Remington, Winchester, Parker, or any of the modern companies will tell you. However, it may do better than the full choke you now have, particularly on quail at short ranges.

Black-powder shotguns, since they do not clean themselves as a spit-patch ball does, foul up badly. This will be of no importance during a day's hunt, but this accumulation of powder sludge makes the gun hard to load if left standing uncleaned for some time. Also, if left uncleaned overnight, the first charge next day probably will not fire. Reason: The gun usually stands upright; all those powder foulings collect moisture, and this settles about the chamber and in the nipples. Even shooting several caps first will not dry it. This moisture is collected by salts formed as a residue, and in turn will quickly rust the gun and cause pits.

To clean the barrels, pour them full of hot water a couple of times, letting it run out the nipples. Then plug the nipples, pour a little hot water in the barrels, add about a tablespoonful of Dreft or any good soap powder and, with a cleaning attachment on your rod, pump this up and down. Do this twice; follow with clean hot water; stand the gun up and let it dry. Finish drying with a flannel swab, and oil the inside of the bore.

For cleaning the outside of the gun where powder "burns on," you can use soapy water. But a saliva-wet rag is a better powder solvent. Oil the gun outside and in. Before hunting with it again, swab the excess oil out of the barrel, and snap a couple of caps to be sure the nipples are clear and dry.

Last of all, respect the muzzle-loader as a gun: It is not a toy. Treating it with respect will save eyes, fingers, and even lives.

◆ ◆ ◆

HOME BREW FLINTLOCK

This flintlock pistol was made entirely from scraps. Illustration shows tamping rod drawn out, allowing barrel to lift upward. The barrel may then be unscrewed by hand from the breech, which is securely mounted in metal within the mid-section of stock. This "Takedown" feature permits easier cleaning.

The gadget attached to the hammer is what starts the fire burning. A cigarette lighter flint,

a hardened steel wheel with a knurled edge, and a coil spring combine to make a silent flintlock.

The rounded metal butt or hand grip is removable. The stock grip is entirely hollowed out and the space so provided holds shot and balls. The tamping rod is a brass tube, containing black powder for four loads. The removable ball at the end of the rod contains two extra flints.

The barrel was made without a lathe, by laminating four seamless steel tubings; safe enough if only black powder is used, measured with common sense. One and three-fourths drams is a good powder charge, with half an ounce of lead. However, I have tested this barrel with two and one-half drams of black powder and three-fourths ounce of lead without injury to gun or shooter.—O. T. Littleton.

New Foreign Arms and Ammunition

By W. H. B. SMITH

1. The New Chinese Browning Pistol

IN 1923, OUR LATE GREAT JOHN M. BROWNING patented his last important invention—a new automatic pistol developed at the request of his European manufacturers, the Fabrique Nationale d'Armes de Guerre of Belgium. This weapon was designed along basic Browning lines as an advance over his earlier pistol, our own Model 1911 Service Pistol, commercially manufactured and sold as the Colt .45 Automatic.

In 1935, this new pistol was commercially introduced by Fabrique Nationale under the name, "The 9 mm. Browning High-Power Automatic Pistol, 13-Shot," and some were issued to the Belgian Army to supplant their earlier, lower-powered Browning pistols. When the Germans overran Belgium they grabbed up all available pistols of this type, since they were chambered for the 9 mm. Luger cartridge, the standard German Army pistol cartridge.

It is to the everlasting glory of the Belgians that the Germans during their occupation were unable to produce these pistols, or any other Fabrique Nationale products, in the great Fabrique Nationale works in any quantity. The sabotage, the slowdowns, and the utter unreliability of the weapons turned out at this period is a glowing testimonial to the spirit of the Belgian underground.

It seems to be a little-known fact that, at the start of the war, the Chinese were armed very largely with German-made weapons. Even today, a huge item in our Chinese lease-lend program is ammunition of German rifle and pistol calibers for use in these weapons. The most common pistol in use in China is not, as is commonly supposed, the 7.63 mm. Mauser, but is actually the 9 mm. Luger. A Mauser to shoot the Luger cartridge is also popular.

As the Chinese have facilities for manufacturing the 9 mm. Luger cartridge, and as arsenals in India and Australia provide nearby additional sources of supply, it is understandable why they decided to stick to a caliber which they have found entirely satisfactory through years of hard field service.

This new Browning is being manufactured for the Chinese in Canada, from the Belgian model. It is being turned out in two types: a standard holster pistol with fixed service sights, and a model supplied with a wooden holster of the Mauser type which can be attached to the butt of the pistol to convert it to a carbine. This latter model has an adjustable rear sight for long-range firing, a feature still prized by Asiatics, although civilian experiments in this country long ago found that stock attachments were of very little value, since a weapon shoots differently from one-hand and from shoulder positions.

The regular model is 7.34 inches long overall and has a total barrel length of 4.64 inches. The pistol with empty magazine weighs about 2.06 pounds. The capacity of the magazine is thirteen cartridges, using either the truncated-nose or round-nose bullet. This magazine is a double-row type resembling the one originally used in our Savage automatic pistol. Its use results in a greater width in the grip, which actually adds to the balance of the pistol and the comfort of the grip. This, together with the scientifically placed hump in the grip, the shape of the trigger, the cutaway section of the receiver behind the trigger, and the streamlined slide, relieves the pistol of the muzzle-heaviness found in our .45 Auto and provides a better balance and better instinctive pointing.

The weapon is provided with a positive hammer safety, positioned as in our service pistol. When this safety is forced up by the thumb into the notch in the slide, a projection on its lower side fits at the rear of the sear to prevent the release of the hammer. The slide stop, which is forced up by the magazine follower to hold the pistol open when the last shot has been fired, and the button magazine release both follow the customary Browning form. No safety grip is provided, as it is felt that this is not an essential on a military pistol.

New 9 mm. Browning pistol, manufactured in Canada for the Chinese. Issued with or without Mauser-type wooden holster attachable for shoulder use.

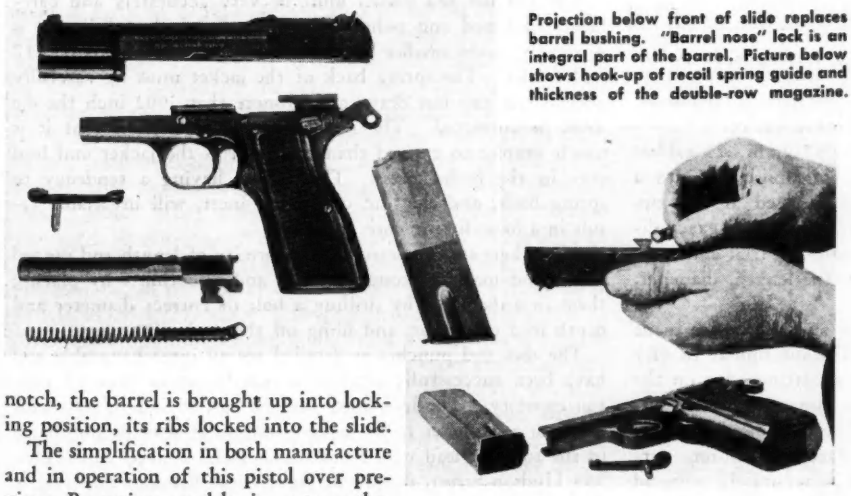
Besides the oversize magazine, new features include: (1) A magazine safety. When the magazine is withdrawn, the safety spring forces the safety out, swinging the trigger lever forward out of engagement with the sear. Inserting a magazine presses the safety against its spring tension, swings the trigger lever backward and under the sear to permit finger pressure to be passed on to the sear. (This is a very valuable feature in a target pistol. Its military value may be questioned, however, on the ground that, if the magazine is lost, the weapon cannot be used as a single loader.)

(2) An improved trigger unit. Instead of the old stirrup-type trigger, this pistol is fitted with a comfortable trigger which, when pressed, forces a trigger lever upward. This rotates the sear lever, which acts upon the sear arm, causing it to swivel and release the hammer. Unless the slide is fully forward and the barrel securely locked to it, the sear lever remains at the rear and the trigger lever cannot act upon it. This prevents the weapon from being fired. If the trigger is held back after a shot has been fired, the trigger lever is retained in raised position but is also forced forward by the sear lever on forward motion of the slide. This prevents the trigger lever from acting upon either sear or sear lever; hence the hammer cannot fall until the trigger is permitted to move to its normal forward position. This acts as a positive disconnector to prevent more than one shot from being fired for each pull of the trigger.

(3) An improved slide. The forward end of the slide has only one opening—that for the barrel. The front of the slide below the barrel muzzle is solid, doing away with the weak barrel bushing of previous models. The recoil spring and its guide seat in the hollow below the barrel, and the head of the guide sets into the barrel nose where it is securely retained by the transverse slide stop pin.

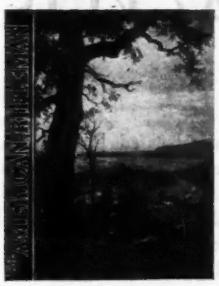
(4) An improved barrel lock. While retaining the basic Browning locking system—two locking ribs on top of the barrel fitting into corresponding grooves inside the slide—this new Browning does away with the swinging link and pin used in our .45 Auto, and provides instead a "barrel nose" as part of the barrel forging itself. This barrel nose is placed directly below the heavily reinforced chamber, and has a guiding slot which is controlled by a cam machined into the receiver. This arrangement makes for a much more rigid barrel, and permits simplification of the recoil spring system.

The action of the pistol is simple. At the moment of discharge the barrel is locked securely to the slide as the top ribs engage in the locking slots in the slide. As the slide starts back, carrying the barrel with it, the sear lever is disconnected from the trigger lever. As the pressure drops to safe limits, the lower section of the notch of the barrel nose contacts the cam in the receiver, and the rear end of the barrel is drawn down until the ribs are free from the locking slots. The slide goes on back, riding over the hammer to cock it. The extractor claw carries back the empty case until it strikes the ejector and is hurled from the pistol. The recoil spring is compressed. Rearward motion stops when the lower part of the slide strikes against the stop at the forward end of the receiver. For the return motion, the recoil spring starts the slide forward to strip the top cartridge from the magazine into the chamber; the breech end of the slide strikes the barrel and, under the action of the cam in the receiver acting against the upper part of the barrel nose notch, the barrel is brought up into locking position, its ribs locked into the slide.



Projection below front of slide replaces barrel bushing. "Barrel nose" lock is an integral part of the barrel. Picture below shows hook-up of recoil spring guide and thickness of the double-row magazine.

The simplification in both manufacture and in operation of this pistol over previous Browning models is noteworthy. Coupled with the excellent performance of the cartridge it uses and the very large magazine capacity, this last of the Brownings is a weapon to reckon with. Now that it is being manufactured on this continent, pistol cranks may look forward to its possible commercial sale—unless, as in the past, the arrangement between Colt's and Fabrique Nationale prevents its distribution.



THE COVER

This month's cover is reproduced from a color photograph of the well-known painting, "Guerilla Warfare, Civil War, 1862," painted by Albert Bierstadt. The painting is from the gallery of The Century Association, New York City, and is another of the fine collection of "American Battle Paintings, 1776 to 1918," now on exhibit at The National Gallery of Art, in Washington, D. C.

Albert Bierstadt was born in Germany in 1830. The following year he was brought by his parents to New Bedford, Massachusetts, where he spent his youth. At twenty-three, he returned to Europe to study painting. Returning to the United States, he joined a surveying expedition under General F. W. Lander to mark an overland wagon route. This and other trips in the West provided material for a great many of the landscape paintings in which he excelled.

Reproduced by courtesy of The National Gallery of Art.

2. The British .22 Long Rifle Tracer Cartridge

To all of us who have been looking for a way to develop "spectator interest" in the shooting game, the best news in a long time is the successful development by our British cousins of a .22 Long Rifle tracer cartridge.

Originally intended as a machine-gun trainer, this cartridge is accurate enough to be of marked interest to all gallery shooters of .22 rifles and pistols. Their use not only helps the novice to spot his shooting defects, but provides a graphic visual appreciation of what is happening which holds the interest of all spectators.

The cartridges are identified by a red stain on the nose. They are being manufactured in quantity in England. No accuracy tests are available at the moment but those observed in use were regarded as very satisfactory on a 100-foot range.

Now that it has been proved possible to manufacture such a cartridge, we hope to see some American manufacturer take advantage of this development.

3. The German All-Steel Rifle Cartridge

The latest development in German rifle cartridges is interesting in many ways. *Every component except the priming and the powder is steel.* These 7.9 mm. Mauser cartridges have steel cases treated with a special wax to help easy extraction, steel bullet jackets with a zinc wash to prevent rusting, mild steel cores to replace lead, and steel primers which were also zinc washed. This complete use of steel is apparently indicative of the shortage of brass, copper, and even lead as the Reich nears collapse. But it is interesting to observe that, product of necessity though it is, the ballistics with the new lead-saving core appear, on limited testing done so far, to be unusually good. ♦ ♦ ♦

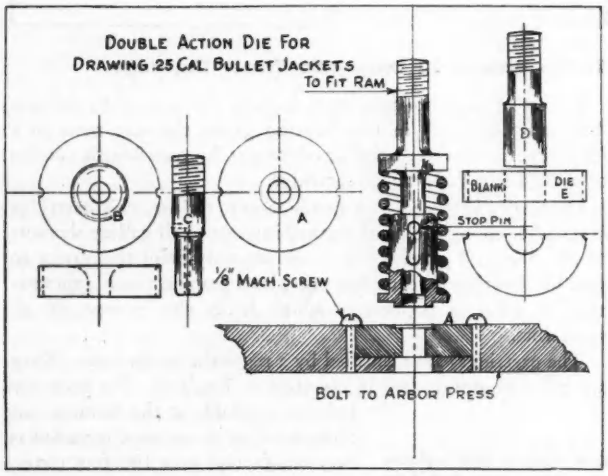
COPPER JACKETS FOR TWENTY-FIVES

By ROBERT F. SMITH

DRAWING COPPER JACKETS for metal-cased bullets is not too difficult a task provided one can overcome wrinkling at the edge of the shallow cups as first punched from the flat, thin blanks. To eliminate this, the double-action die, detailed in the accompanying drawing, has been designed.

This die is designed to retard and smooth out the flow of the blank under pressure of a blank holder and a powerful helical spring as the punch descends, placing ever-increasing pressure on the blank.

The operation consists of punching out a blank from commercial sheet copper not thicker than .627 inch. The diameter



Double-action die eliminates wrinkling of metal in drawing copper jackets.

of this blank is directly governed by the length, diameter, weight, and shape of the nose of the finished bullet.

As an example, in the processing of the 87-grain, .25 caliber bullet, a blank .627 inch in diameter will finish up into a sharp Spitzer point with adequate lead exposed at the tip. However, there is no set rule for predetermining the exact diameter. This must be arrived at through the trial-and-error method after computing mathematically the length, diameter, base, et cetera.

In the production of this bullet, a die and punch are made of tool steel, hardened and tempered. The die similar to (E) in the drawing, must be kept to a sharp cutting edge on the face or upper side with hole bored in the same (.627 inch) diameter. The punch (D) must be a close-working fit in this die with a sharp, very slightly concave face, to facilitate cutting, not tearing, the blank. Both must be accurately centered in a heavy arbor press, and the blanks punched out.

The resulting round flat blanks are annealed and washed in hot soapsuds to remove all scale and grit. The washing must be thorough as, notwithstanding the hardness of the dies, grit and scale that have become imbedded in the metal tend to set up an abrasive effect and will very shortly enlarge the dies.

After drying, a blank is inserted in the die (A) which has been bored to .378 inch and counterbored to receive the blank to .627 inch diameter and to a depth corresponding to the thickness of the blank. The punch must be equal to the outside diameter of the cup to be drawn, less twice the thickness of the metal, or .324 inch.

The working edge of die must be rounded and blended into the counterbore and highly polished, leaving the bottom edge square and true to facilitate the stripping off of the cups on the upstroke of the punch. Likewise, the bottom edge of the punch must be slightly rounded and highly polished to avoid punching out the bottom of the cup.

Subsequently, five more dies with accompanying punches are made as in (B) and (C), hardened and tempered. These punches must fit just snugly in the cups immediately preceding each individual draw. A small hole about .0312 inch is drilled vertically and horizontally in each punch as an air escape to relieve air lock and assist in stripping cups from punch. (Note dotted lines in the drawing.)

The cups are now elongated and reduced in diameter by successive drawing and stretching operations, with anneal and wash between each draw, in the order enumerated.

First draw into shallow cups, .378 inch; second draw, .34375 inch; third draw, .3125 inch; fourth draw, .28125 inch; fifth draw, .26563 inch. The foregoing diameters, with the exception of the first, it will be noted, are in fractional sizes, thus eliminating necessity of making special reamers. They can be drilled with standard twist drills and the rounding out of the top edge and the subsequent polish will suffice to bring them to suitable size.

The last die and punch must be very accurately and carefully machined and polished to a very smooth polish. It is purposely made smaller by .002 inch than the standard .257 inch bullet. The spring back of the jacket must be carefully checked on this last draw, and if more than .002 inch the die must be corrected. The reason for this caution is that it is much simpler to expand than to compress the jacket and lead core in the bullet press. The jacket, having a tendency to spring back, and the lead core being inert, will invariably result in a loose-fitting core.

All jackets are inspected for uniformity of length and ragged edges, and may be brought to size and smoothness by placing them in a die made by drilling a hole of correct diameter and depth in a metal bar, and filing off the projecting edges.

The dies and punches as detailed are all interchangeable and have been successfully used on a K.R.W. arbor press of one-ton capacity. The lead cores may be cast in individual molds made to a diameter to fit jackets snugly, or may be purchased in the form of lead wire from Alpha Metal Rolling Mills, Inc., 363 Hudson Street, Brooklyn, New York; Belmont Smelting & Refining Works, 348 Belmont, Brooklyn; White Metal R. & S. Corp., 76-86 Multrie Avenue, Brooklyn, New York; Patterson Brothers (Dept. S. M.), 15 Park Row, New York City.

The actual and final forming of the bullets in a bullet press has been extensively covered in the book, "Advanced Gunsmithing," by W. F. Vickery. His methods are concise and practical. ◆ ◆ ◆

Evolution of Accuracy and Range

By MAJOR B. B. ABRAMS

(SECOND OF THREE PARTS)

OLD FRENCH SERVICE REGULATIONS and the first Ordnance handbook of the United States Army fixed the life of a musket at fifty years. This regulation was based upon the experience that a musket barrel would fire 25,000 rounds without becoming unserviceable, and calculating that, even in time of war, a musket was not fired more than 500 times a year. The wear caused by firing was small, and the principal cause of the rejection of barrels was a decrease in the diameter of the thickness of the barrel at the breech end of nearly one-tenth of an inch.

The inaccuracy and lack of range of the old smoothbore gun, together with poor training methods, account to a great extent for the Braddock massacre. The following is quoted from "Our Rifles," one of a series of articles entitled "Firearms in American History," by Charles Winthrop Sawyer:

"When Braddock's thirteen hundred soldiers stood huddled in groups in the forest near Fort Duquesne, and swarms of ambushed savages were shooting them like sheep, the trained soldiers of European battlefields were as helpless as though unarmed. No soldier of the regular army was taught to aim his musket; all that was required of him was to hold his musket horizontally from the shoulder, point it towards the ranks of the enemy, and fire at command. Braddock's soldiers saw no enemy in ranks; an officer, writing of the battle, stated that in the five or six hours while his men were being slaughtered he saw not even one Indian; and the British soldiers, whether firing in volleys or singly, shot only the trees that happened to be before their guns."

Turning from the smoothbore musket to the rifle, we find that as early as 1611 certain regiments in the Danish Army were equipped with rifles. On the other hand, in 1795, Napoleon ordered that rifles be discarded in a regiment of light cavalry. He considered the weapon impractical for organized warfare because of the difficulties in muzzle loading. Until 1800 the rifle was not generally utilized as a military weapon in any country except America. Even here the rifle-armed troops were volunteers who furnished their own, privately made, rifles. Many stories have been handed down through the years as evidence of the accuracy attained by soldiers of the Continental Army armed with the rifle. That American riflemen gained the respect of the British may be seen from an article entitled "Drake's 'Old Landmarks of Middlesex,' of '88," from "The Kentucky Rifle:" "In the British camp the riflemen were called 'shirt-tail men, with their cursed twisted guns, the most fatal widow-and-orphan makers in the world.' "

There was a large quantity of ammunition wasted through reckless firing during the American Revolution, due to the fact targets were fired upon at ranges exceeding ability of the gun. The round one-half-ounce bullet used in those days simply would not carry long distances with precision. For this reason General Richard Henry (Lighthorse Harry) Lee issued orders prohibiting his troops from firing at ranges exceeding 150 yards.

The accuracy and range of the rifle was a considerable improvement over that of the smoothbore. An early American rifle, the Model 1817, firing a half-ounce spherical ball with a muzzle velocity of 2,000 f.s., was purported to be able to place one shot out of three in a ten-inch bull at 200 yards. For this test the rifle was placed on a rest and fired from the shoulder by the best marksman available. In 1837, a penetration test of this rifle was made at the U. S. Military Academy. Using white oak, it was found that the penetration was two inches, compared to a penetration of one and one-half inches by the musket.

Information on the accuracy and range of the gun up until the year 1840 is scant. However, from that year on, trustworthy data on accuracy may be had. As may be seen in Figure 2, great increases were made in the accuracy of the military rifle in the years upward from 1840. In each case the black bull's-eye represents the present standard thirty-six-inch bull at 1,000 yards. It is quite evident that prior to 1840, at a range of 100 yards, the best military rifle did

The rifled musket of 1855 could pick off a mounted man at 600 yards.

well to place five shots in a bull's-eye five inches in diameter.

The information contained in Figure 2 does not refer to any specific rifle or ammunition, or to a particular year, but refers to periods of time. It is based upon the best possible ten-shot group which probably could have been made with selected military rifles and ammunition fired under test conditions. The chart shows mean radius. The diameter of the bull's-eye which would contain all of these shots is over three times the size indicated by the figures; i.e., the ninety-inch mean radius of the 1840 group becomes a 300-inch group diameter, and so on.

It is interesting to note that the flintlock musket lasted about 200 years, the "Brown Bess" musket was in use for 150 years, while the percussion principle was discovered, reached its zenith and became obsolete in a period of fifty years. This is indicative of the accelerated pace in development of the gun after many years of dormancy. The first percussion rifle adopted by the U. S. Army, and at the same time the last model of our flintlock military arms, was the Model 1841, variously called "Harper's Ferry Rifle" and "Mississippi Rifle." This weapon was used extensively for a period of fourteen years until the spherical bullet used by it was superseded by a conical bullet which required the reboring and grooving of the rifle barrel, leading to the rifle itself being replaced with a new model. The Model 1841 was capable, under certain conditions, of making a ten-shot string in a four-inch circle at a range of 100 yards. At this distance it could penetrate eight inches of soft pine.

During this period of transition numerous competitive tests were conducted to determine the accuracy of the musket and rifle. As a result of a test in 1844, the musket obtained seven hits out of 200 at 400 yards, while the rifle obtained seventy hits. The rifle used an elongated ball. In 1859, using a "disc" bullet in a rifle, it was possible to obtain 70 per cent hits in a space two feet by four feet at 600 yards.

One of the most carefully conducted tests was the one between the Enfield musket and the Whitworth rifle at Hythe, England, in April, 1857. The trials took place from a fixed rest with the following official return of results:

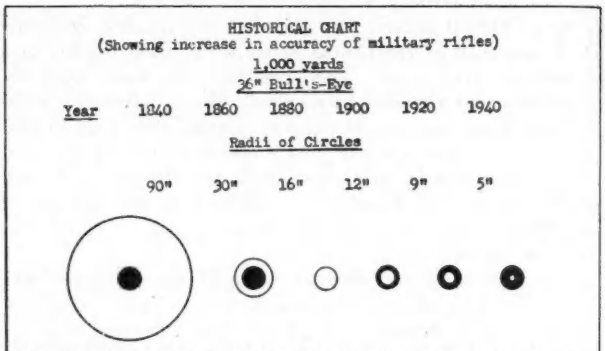
Description of rifle	Distance in yards	Angle of elevation	Mean radius in feet
Enfield	500	1 deg. 32'	2.24
Whitworth	500	1 15	0.37
Enfield	800	2 45	4.20
Whitworth	800	2 22	1.00
Enfield	1000	4 12	8.00
Whitworth	1000	3 08	2.62
Enfield	1400	.....	.... *
Whitworth	1400	5 00	4.62
Enfield	1800	.....	.... **
Whitworth	1800	6 40	11.62

* Shooting so wild no diagram taken. ** Not tried.

The day following the above trials, General Hay, Chief of the British Army School of Musketry, fired the Whitworth rifle from the shoulder and made a target of fifteen inches at 800 yards; that is to say, from that range all of his shots told within that mean distance of the center. When the range was increased to 1,000 yards the results were equally good.

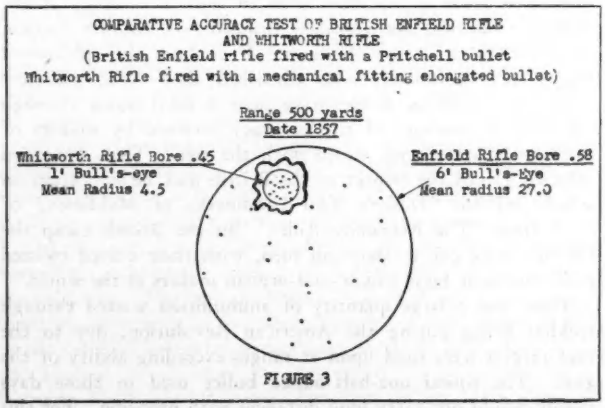
Figure 3 shows a comparison of the targets obtained with these two weapons at a range of 500 yards.

Certain dimensions of the Whitworth rifle were machined to one one-thousandth of an inch. It introduced an improved system of rifling, including a twist four times greater than the Enfield, a decrease in diameter of the bore of 20 per cent, an elongated projectile with a mechanical fit, and refined processes of manufacture. Although advantages were derived from these improvements, the Whitworth rifle was found unsuited for use as a military rifle and was not adopted by the army.


HISTORICAL CHART
(Showing increase in accuracy of military rifles)
1,000 yards
36" Bull's-Eye
Year 1840 1860 1880 1900 1920 1940
Radii of Circles
90" 30" 16" 12" 9" 5"
Each white circle has a radius equal to Mean Radius of each type of rifle.
FIGURE 2

The superiority of the Whitworth rifle over other guns of that period is well summed up as follows in "The Story of the Guns:" "In point of accuracy and range, the advantage of the old rifle over 'Brown Bess' was more than five to two, the advantage of the Whitworth rifle is at fifty to one over the old rifle. Its combined improvements give a more correct range than the Minie, and one-half further with one-third less gunpowder. The extreme range of the Minie is 1,400 yards, but the range of the Whitworth is 2,000. On careful trials at 500 yards distance, the accuracy of shooting of the English Whitworth is more than ten to one compared with the best French Minies now made. This allusion to the Minies refers to the competitive trials at Vincennes in 1860."

As long ago as 1860, special experimental rifles were made, such as the one designed by General Jacobs, with which it was claimed that a man-sized target at 1,000 yards could be struck


COMPARATIVE ACCURACY TEST OF BRITISH ENFIELD RIFLE
AND WHITWORTH RIFLE
(British Enfield rifle fired with a Pritchell bullet
Whitworth Rifle fired with a mechanical fitting elongated bullet)
Range 500 yards
Date 1857
Whitworth Rifle Bore .45
1' Bull's-eye
Mean Radius 4.5
Enfield Rifle Bore .58
6' Bull's-Eye
Mean radius 27.0
FIGURE 3

one time out of three, and that the effective range was fully 2,000 yards. At a competition held at Zurich, Switzerland, in 1860, the winner of the match made 153 bull's-eyes in one day at a range of 200 yards, the bull's-eyes measuring two and one-half inches in diameter. This score is phenomenal now,

and it surely must have been received with skepticism in 1860.

As a review of effective and maximum ranges from early history down to the present time, Table 1 has been compiled to show the estimated ranges. Once again it is pointed out that in the case of old weapons the listing of ranges is to a great extent a matter of conjecture. The subject of effective range is in itself one of uncertainty. Although there apparently is no official definition of effective range, there are many and varying unofficial definitions. Taking the most logical features of these unofficial statements, effective range may perhaps be defined as follows: that maximum range at which collective fire may be delivered accurately, taking into consideration current tactics and technique, amount of ammunition on hand to be fired over a stated period of time, dispersion of the missiles, and resulting disabling effect.

TABLE 1

(Showing Estimates of Effective and Extreme Ranges of the Principal Infantry Missile Weapons from 300 B.C. to the year 1944)

Weapon	Period of Use or Model	Effective Range	Maximum Range
Sling	300 B.C. - 1500 A.D.	20 yards	100 yards
Short Bow	300 B.C. - 1800	100	200
Cross Bow	1100 - 1800 A.D.	200	350
Long Bow	1100 - 1500	250	400
Turkish Bow	1400 - 1700	300	800
Handgun	14th Century	10	250
Matchlock	15th Century	25	350
Harquebus	16th Century	40	500
Flintlock	1600 - 1800	60	800
Percussion Musket	1805 - 1850	75	1000
American Revolution Rifle	18th Century	100	1000
Prussian Needle Gun	1840 - 1870	300	2000
U.S. Springfield, Cal. .45, M1873	1873 - 1892	500	2800
U.S. Rifle (Krag) Cal. .30, M1898	1892 - 1905	500	3300
U.S. Rifle (Springfield) Cal. .30, M1903, M1903A1, Using Cartridge, Ball. M1906	1905 - 1944	600	3450
U.S. Rifle (Enfield) Cal. .30, M1917 Using Cartridge, Ball, Cal. .30, M1	1917 - 1941	600	5500
U.S. Rifle (Garand) Cal. .30, M1, Using Cartridge, Ball, Cal. .30, M2	1936 - 1944	600	3500

It will be noted that the "Cartridge, Ball, Cal. .30, M1906, M1, and M2," may all three be used in the following Regulation, U. S. Army Rifles: U. S. Cal. .30, M1903, M1903A1, M1917 (Enfield), and M1 (Garand). In this instance, the range is a characteristic of the ammunition and does not vary when used in any of the four models of the Cal. .30 rifle.

(Readers who asked for an explanation of Historical Chart, page 9, September issue, note paragraph above.—EDITOR.)

Table 1 discloses that the maximum range of weapons and ammunition has increased through the years until the adoption of the M2 cartridge. The M1906 Ammunition used in the last war did not meet the requirements for a greater range desired when used with the .30 caliber machine gun. This led to the development of the M1 ammunition. Although the M1 cartridge was of greater accuracy than any other cartridge used by the U. S. Army, the recoil caused by it when fired from the service rifle somewhat impaired its effectiveness on the range because of its undue punishment of the marksman.

With the advent of the .50 caliber machine gun for long ranges, it became unnecessary to have such extreme range for the .30 caliber and the Army directed the Ordnance Department to design a cartridge with reduced range. The M2 cartridge was the result. This combined the advantage of having less recoil, thus improving the efficiency of the individual soldier, and the decrease in weight of the bullet lightened the load to be carried. Adopted in peacetime, the M2 ammunition continues to be standard for wartime use because it is apparently adequate both in power and range for combat requirements.

The technical reason for the decrease in maximum range of the M2 cartridge in comparison with the M1 is that the bullets are of a different shape and weight. The base of the M1 bullet has a nine-degree taper known as boattail. Its weight is 174.5 grains. The M2 bullet has a flat base and its weight is 150 grains.

Table 1 gives the effective range of M2 ammunition as 600 yards when fired from the regulation U. S. Army rifle. This is not an error. It refers to tactical effectiveness, not to killing power. Under our present regulations on tactics, the rifleman at war advances as close as possible to the enemy before opening fire. His forward movements are made by taking advantage of all cover and are supported by other weapons such as artillery, mortars, and machine guns, or a path is cleared for him by supporting armor. For this reason the U. S. Infantry usually is not permitted to open fire at ranges greater than 600 yards. Rifle fire is considered to be of no value when the opposing units are both entrenched and neither side is attempting to advance. The continuing development of snipers with telescope-sighted rifles may result in some change as to the "effective range" designated in our field manuals.

Estimates of increase in accuracy of rifles and ammunition from the time the rifle came into general military use are shown in Table 2. With the exception of results for the year 1940, the figures were obtained from tests fired by groups of riflemen using average weapons and ammunition. The results shown for 1940 were obtained from ammunition fired from a Mann accuracy weapon. Group measurements for accuracy of a rifle really should not be used as a criteria because of the human element involved. As a matter of fact, such tests in-

TABLE 2

(Historical Table Showing Estimated Increase in Accuracy of Selected Military Rifles and Ammunition)

Measurements in Inches

Cartridge Ball, Caliber .30, M2 fired from Mann accuracy weapon for 1940 accuracy listings.

Range in Yards	1840		1860		1880		1900		1920		1940	
	Mean Radius	Group Diameter	Mean Radius	Group Diameter	Mean Radius	Group Diameter	Mean Radius	Group Diameter	Mean Radius	Group Diameter	Mean Radius	Group Diameter
100	6.3	18.9	2.1	6.3	1.12	3.36	0.84	2.52	0.63	1.89	1.3	2.6
200	12.6	38.7	4.2	11.29	2.24	6.90	1.68	5.18	1.26	3.87	2.6	5.2
300	19.8	62.2	6.6	20.70	3.52	11.00	2.64	8.28	1.98	6.22	3.9	7.8
400	27.0	86.0	9.0	28.60	4.80	15.25	3.60	11.45	2.70	8.58	5.2	10.4
500	35.0	113.0	11.70	37.80	6.25	20.20	4.70	14.45	3.50	11.30	6.5	13.0
600	44.0	143.0	14.70	47.80	7.84	25.50	5.89	19.10	4.40	14.30	7.8	15.6
700	54.0	177.0	18.00	58.90	9.60	31.40	7.20	23.60	5.40	17.70	9.1	18.2
800	65.0	213.0	21.60	70.80	11.50	37.70	8.63	28.30	6.48	21.30	10.4	20.8
900	76.5	253.0	25.50	84.00	13.60	44.00	10.20	33.60	7.65	25.30	11.7	23.4
1000	90.0	296.0	30.00	98.70	16.00	52.60	12.00	39.50	9.00	29.60	13.0	26.0

volve accuracy of the person firing more than accuracy of the weapon. For this reason there is no doubt but that other test firings for accuracy will show figures greater and smaller than those listed in Table 2. In the case of machine guns and artillery, accuracy tests are an absolute test of the weapon due to elimination of the human element.

U. S. Model 1855 rifle, with Maynard tape primer.

The U. S. Rifled Musket, Model 1855, known as the Springfield 1855, was procured by experimentally converting musket barrels. It was a .58 caliber with three grooves and was purported to be accurate enough to hit a mounted man at 600 yards. Penetration with this weapon was said to be four inches of soft pine at 1,000 yards. Its accuracy was claimed to be sufficient to place ten shots on a four-inch circle at 100 yards, on a nine-inch circle at 200 yards, on an eighteen-and-one-half-inch circle at 400 yards, and on a twenty-seven-inch circle at 500 yards. In Great Britain, in 1865, the Rigby rifle established a new world's record with a mean radius of 1.11 feet for twenty shots at 1,000 yards.

The trajectory of the old Snyder rifle with the Enfield barrel had a maximum ordinate of eleven feet at 500 yards. This rifle was accurate up to 800 yards, although the bullet fell twelve inches in the first 100 yards, fifty-two inches in the first 200 yards. The Martini-Henry was accurate up to a range of 1,200 yards. Its maximum ordinate at 500 yards was eight feet two inches, and at this range it had a mean radius of 0.95 feet for twenty shots. By 1880 the best match rifles were able to obtain an occasional target with a mean radius of slightly over one foot for ten shots at 1,000 yards.

During the period of the War Between the States, the best accuracy that could be expected of the standard issue military rifles was ten shots in a theoretical (five-foot) bull's-eye at 1,000 yards. However, it should be remembered that the extreme shots in a group which has a mean radius of two and one-half feet is over three times this figure, or about eight feet. Therefore, in order to contain all the shots, the circle must be around eight feet in diameter.

The accuracy and range of military rifles increased so greatly during the period of 1870 to 1880 that decisive results could

British Snider-Enfield breech-loading rifle, .57 caliber.

be obtained in battle at the longer ranges. This was illustrated by the American-made Peabody-Martini in the hands of Turkish troops in the Russo-Turkish War of 1877.

The following is quoted from an article entitled "American Breech-loading Small Arms," written by Charles B. Horton in the *"New York Herald"* in 1877:

"This skirmish proved, as every recent engagement has, the superiority of the Turkish over the Russian soldier, and also the vastly superior shooting power of the Peabody-Martini rifle over that carried by Russian troops. At 350 yards the Russian rifle ceased to be deadly. The Peabody-Martini at that range inflicts tremendous loss."

(To be concluded)

Breakthrough

AMERICAN INFANTRY PIERCED the line west of St. Lo when they crossed the St. Lo-Periers road. The heavy bombardment of our air force softened the enemy's defense, allowing our infantry to advance and lose itself in the wooded fields and farmlands beyond. Our artillery kept up the shock of the bombardment with a rolling barrage ahead of that infantry.

And then our armor—tanks, armored cars, half-tracks—came up and through to thrust out long fingers of iron deep into enemy country. Armor and infantry together made up the iron hand that spread wide over the country, then closed like a fist on German troops within reach of its fingers.

That was the breakthrough. No one correspondent in that breakthrough can have a clear picture of what is happening, even on the one front or within the one column he may be covering. It all seems so horribly confused. But here are some typical scenes:

It began on Tuesday, July twenty-fifth. The bombers came over for a solid hour, creating such a hell ahead that it seemed neither man nor beast could survive. Some bombs fell short, some of them among our own men. Our soldiers lay in ditches along the sides of the roads, in foxholes in the fields, waiting out the bombardment and the inevitable zero hour. When zero hour came, our men moved forward. They found the enemy was beginning to recover from the shock of the pasting. Guns barked out again, machine guns could be heard chattering. But our men poured across that now riddled, almost obliterated dividing line that was the St. Lo-Periers road. Those men were traveling light, had stripped themselves to rifle, ammunition, grenades, and a few cans of rations.

That day, Tuesday, the first day of our offensive, was touch and go. It was the infantry, backed up by mortars and artillery—trying to make an opening for the long columns of armor that waited for miles back. We faced some of Jerry's toughest fighting men—S. S. troops, paratroopers—sent in to hold this line. Those taken prisoner were obviously stunned by the terrific bombardment. Some had been found lying half dazed in foxholes and other hiding places. When our men came up on them, they could offer no resistance. But there were others, like the Nazi Rats of Cassino, who came up fighting. They were dealt with.

The second day, the momentum of our attack began to show itself. By this time our light reconnaissance units began dashing through the lands cleared by the infantry, covering the narrow roads, sometimes breaking into the fields. Armored cars, light tanks, half-tracks with armored infantrymen aboard began searching out the safer routes for the Shermans.

One reconnaissance team covered more than a mile beyond our front line without being fired at. Then they met small groups of Germans who fired a few shots, then threw their hands up. Some light tanks with infantry clinging to the sides passed right by one such group, refusing to come down off their perches to bother with herding up prisoners. Farther along, some German artillerymen were caught trying to set

into Brittany

By BILL SHADEL

up an antitank gun. About six infantrymen jumped down from the light tank and fired as soon as their feet struck the ground. That ended the German pocket. There may have been wounded or prisoners, but our men went on.

Our light tanks got off the roads, began working through the fields to flush out a lone German outpost, or two or three machine gunners still in the hedgerows. Those fleeing Germans were either shot or caught and sent back as prisoners.

Sherman tanks followed up—again bristling with infantrymen. Prisoners coming back couldn't explain the lack of resistance. "The bombing didn't knock us out," they said. "The tanks did it. They came too quickly."

Our columns were driving through infantry-made corridors held open in the German's defenses. Those columns were infantry in trucks and half-tracks, self-propelled or truck-drawn artillery, and always tanks, jeeps, and communication half-tons. Military Police on motorcycles darted in and out of the columns, picking out vehicles with priority, moving them out ahead under escort, keeping order among the impatient lines.

Overhead our fighters were wheeling on patrol. An observation plane—a lowly cub—radioed that enemy tanks were moving up a road. Our artillery showed itself by barking out its salvos. The next report from the cub indicated two tanks burning, the rest scurrying for cover.

Our columns were not always safe. The enemy was hitting at the neck of the gap with long-range shelling and some mortar fire from the flanks. Shells crashed in now and again, and our heavy artillery would answer back.

To the rear of these columns, in what was the front on Tuesday, was a wilderness of smashed villages, splintered trees, and cratered fields. All of it shrouded in choking grey dust. In a small village you wait while a bulldozer clears the way through rubble blocking the narrow streets. On another street engineers, with earphones tuned to the mine-detectors, probe for mines. Other engineers are trailing wires which lead to mines, handling them delicately, then backing off and yanking hard to explode a mine or boobytrap.

The bulldozer noses back and forth, filling with rubble the holes that bombs and shells have made in the road. The driver looks through a small slit in his armored cabin, protection against any mines he may blow up in this operation.

The infantry had fought its way through La Chapelle on the Marigny-Coutances road within 3,000 yards of the town. The armor which had earlier reached the town was on the dominating heights overlooking it. South of Marigny we turned along the Coutances road. Again there were the great bomb craters. Some looked as if they had been partially filled in. You dip down into these with your jeep like a Coney Island roller coaster. You follow the engineer's newly-made detour through fields, over wire mats. Through those fields, the dead cattle lying all about put up a stench you try to hide with a handkerchief drawn across your face. It helps keep out some of the dust, too.

We came up to a forward battalion. One company was just moving off to the fringe of a wooded hill. There were pockets of resistance somewhere off there. Mortar fire had been coming down on the road from the flanks. The traffic had to be sidetracked through gateways or holes in the hedges made by the tanks. Another company was going off on foot, circling wide on the battalion's flank, through other fields, over other hedges, to locate the enemy fire.

We heard, over the radio in a Lieutenant Colonel's jeep, of another battalion just east of Coutances being held up by a comparatively small group. Infantry, self-propelled guns, and mortars were trying to make a stand on another wooded height. Our artillery could smash such resistance if it could discover the firing positions. The ever-present artillery observer teams were up there with the infantry, but because of hedges and trees they had to call on spotting planes to make the location. We learned later that a whole battalion of our artillery was called in and cleaned up the pocket.

In one village along the way, snipers began firing on the advance column. Our men dismounted from the tanks, took cover. After waiting some time they withdrew to make another approach from another road. Germans were machine gunning heavily from houses. There were mines on the road. A tank tried to force its way through but its tracks were blown off by a mine.

But the light tanks, armored cars, and half-tracks keep moving ahead, exploring the routes for the heavier tanks that follow. The resistance becomes lighter all the time. The Germans haven't had time to build up anything more than road blocks, dig in an occasional tank, or an antitank gun, along the routes. There is no front line now. But off in the orchards and along the rutted lanes, small determined bands have kept together, thinking they could fight their way out. They have turned down one lane after another, only to find themselves blocked by our tanks and infantry.

A line of our tanks and infantry in pairs and squads is scattered along a road. The Germans attack, but we fight off the infantry. Our self-propelled 105's that have kept pace with our thrusts locate the tank concentration and for three hours fire their bursts. As you come along later that morning, you see the German Panthers, smashed and broken, overturned in the ditches, some still smouldering.

Here then is the picture of a breakthrough. Five columns striking from the north, all working on a similar pattern. The light reconnaissance units blaze the trail. They race ahead to disorganize enemy links, communications, and report back on special pockets to be dealt with by the heavier tank columns that follow. Tanks, infantry in half-tracks, jeeps as command cars for company or battalion officers, clumsy self-propelled 105's on tank chassis, half-tracks pulling antitank guns, armored ammunition wagons, follow. Then come the men to consolidate the ground; foot soldiers moved up on trucks, then taking to the hedgerows in quickly dispersed sneaking lines.

Once the mortar and artillery fire has been cleared from the flanks, then come the trucks with supplies, bumper to bumper; whole divisions on the move, changing their command posts to a forward area, committing their troops the moment they arrive. It is all a perfect example of marvelous teamwork—cooperation of every unit, of every service, made possible by staff work behind the lines. ● ● ●

Hunting Luck is made at home

By ELMER KEITH

NO MAN HAS ANY BUSINESS shooting at a fine game animal until he has verified his sights by careful shooting before the hunt, nor until he has practiced enough to be reasonably certain of hitting the game in a vital spot.

The experienced big-game hunter would as soon appear in church without his trousers as in the game field with a rifle he had not sighted in. Yet many thousands of hunters take to the hills each fall with rifles, some of them borrowed or rented, which they have never fired. They have no idea where their rifles shoot, nor how to shoot them. Some such hunters do kill game; but most of them waste the cost of the hunt either by clean misses or, far worse, by wounding game.

Rifle sights are easily knocked out of adjustment. Different makes and weights of bullets shoot to different points of impact. Even in this day of scarce ammunition, it is far better for the amateur big-game hunter to use most of his ammunition for sighting in and getting acquainted with his rifle before starting the hunt. It takes just one well-placed shot to kill an animal; but without proper sighting in and practice, a whole box can be wasted without producing a single steak! The more cartridges you expend in proper work before the hunt, the less you're apt to need to get your meat or your trophy.

Lever or bolt-action or single-shot sporting rifles are best sighted in with a good solid rest. Use a bench rest, a good stout table, a log, or a sandbag or box on the ground for prone work. The rest should be solid and rigid, with a blanket or similar pad for the rifle. Rest the forestock on the pad, never the naked barrel. To do so will cause the rifle to shoot higher than normal, whereas rifles sighted in with padded forearm rest will, as a rule, shoot to the same elevation from any hunting position except prone with tight sling.

If you have a modern bolt-action rifle equipped with sling, and if you intend to use the sling (as you should do for all long difficult shots), then by all means sight the arm prone with sling. But it is also well to fire some shots from the padded forearm rest, without sling, making note of the difference in point of impact, which will be much higher unless the rifle has a very stiff, heavy barrel. (My Model 70 Winchester .300 Magnum shoots about three inches higher at 100 yards with the soft padded forearm rest than with tight gun sling, prone.) The hunter must know where to hold for both positions.

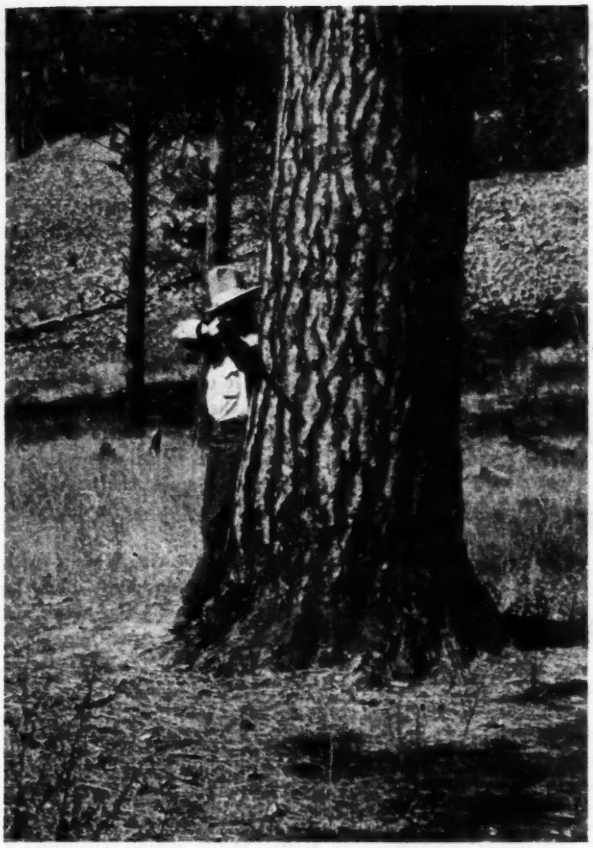
The distance at which we zero a rifle for point-blank shooting is governed to some extent by the type of terrain in which we intend to hunt, and by the trajectory of the cartridge used. For timber and brush hunting, where the shooting is usually 100 yards or less and where no long shots will be taken, the rifle may well be sighted to hit the point of aim exactly at some range from sixty to 100 yards. Such a point-blank sighting is especially good when using the old, time-tried, and effective .38-55 and .45-70 rifles in dense timber and brush where the shooting is rarely beyond sixty or eighty yards. Their high trajectory curve makes it imperative that they be sighted for 100 yards or less for best results in timber shooting.

Where the terrain is more open and longer shots are the rule, higher velocity cartridges are in order and we should take advantage of the trajectory curve to sight our rifles at the longest practical range. With cartridges of around 2200 feet velocity, such as the 220-grain .30-40 and the .30-30, the .35 W.C.F., and the 405 W.C.F., the sighting should never be over 150 yards for point-blank zero of the rifle. With a midway raise above the line of sight of over three inches in timber shooting, or much over four inches in open-country shooting, we are very apt to overshoot on quick offhand shots at the midway point of the point-blank range. Such cartridges and rifles, sighted for 200 yards, shoot much too high at 100 to 125 yards.

Cartridges of 2500 to 2800 feet velocity should be sighted for 200 yards point-blank when used in fairly open country. The .30-'06 with 170- or 180-grain bullet is the best example of the 2700-foot-velocity load. When sighted at 200 yards, the bullet will arc three inches above the line of sight at about 125 yards. Remember, the path of a bullet in flight is not a true curve but a parabola and the curve increases sharply as the range increases. Thus, while the rifle shoots fairly flat at close range, old man gravity gets in his dirty work with increased vigor as the range increases, so that the rifle missile falls with ever-increasing rate as the range increases.

With the 180-grain .30-'06 sighted exactly right at 200 yards, you can safely hold about nine inches high on an animal at 300 yards. The same sighting applies almost exactly to the .375 Magnum with the 270-grain bullet. Hunters not familiar with the trajectory curve of their pet cartridge should check the ballistics tables furnished by the cartridge companies.

In the main, it's a good rule of thumb to sight a timber rifle for the range at which most shots will occur, and to sight a rifle for use in open country for the longest practical point-blank range that will allow you certainly to take all animals at that range and at all shorter ranges. Expert riflemen who are also expert at range estimation can and often do use a much



Shoot from a rest whenever you can; but brace your body or arm, never the barrel of the rifle. To do so will radically change the point of impact.

longer point-blank range, with a correspondingly higher midway trajectory, than is practical for the amateur hunter. This is especially true for open-country shooting of large animals like moose and caribou on the barren lands of the North, or plains shooting in Africa. These men often sight moderate-velocity rifles for long ranges such as 300 yards and hold at the belly line for closer shots. But the novice, in a hurry and often excited as well, will nearly always overshoot an animal at closer than point-blank ranges with such sighting, so such a system is not recommended to any but expert riflemen and hunters.

With rifles of very high velocity with long Spitzer bullets of good sectional density that have a really flat trajectory, the point-blank range can safely be extended to beyond 200 yards. Such cartridges as the .270 Winchester, .300 Magnum and .30 Newton, as well as many custom loads with velocities of 3,000 feet or over with long Spitzer bullets and in the hands of expert riflemen, can be safely sighted for a point-blank of 300 yards and for the tyro, 250 yards. I have used 300 yards as point-blank range for such rifles for nearly twenty years in both coyote and big-game shooting, with excellent results. · At present my .300 Magnum Model 70, .285 O. K. H. and .334 O. K. H. are all set for a point-blank of 300 yards. I hold on the belly line of a coyote at 175 to 200 yards, and hold over for ranges beyond 300 yards. But for timber shooting where shots are close, I prefer a double or good bolt or lever action sighted for 100 yards; or, with low velocity loads, for sixty yards.

With any type of iron front sight, whether blade with insert or bead type, the face of the bead or blade should be filed perfectly flat or it will reflect the light on one side or the other as the sun shifts, causing lateral errors.

Whether you shoot open sights, peep sights, or scope sights the above principles of point-blank ranges apply. If you shoot open rear sights, by all means use either the flat-top bar with platinum line or the very shallow wide English V with center line or the flat-top bar with U or tiny V notch. The high upstanding horns of the Buckhorn type obscure vision and make the job harder. (Many Buckhorn sights can be converted into excellent open hunting sights by filing down the wings.)

With peep sights, use only a large aperture if the shooting is in timber or at reasonably close range. The eye naturally finds the center of said rear aperture and a target eyecup with a very small aperture only cuts down visibility. You want to be able to see through that peep sight instantly, and it makes no difference in hunting accuracy if you can see forty acres around that front bead!

With receiver sights having a smaller turn-down peep, like the old Lyman 48, the first thing to do is remove the little set screw and throw that smaller turn-down disc away. With the same sight fitted with a target disc, remove said disc and save it for target shooting.

Never mount a tang peep sight on rifles with heavy recoil, as it may strike you in the eye in recoil. Even rifles like the '95 Winchester in caliber .30-40 and the Savage Model '99 in .300 Savage caliber have been known to put out a shooter's eye when shooting uphill. For all rifles of moderate or heavier recoil, the receiver type peep sight is recommended.

In selecting a scope sight for the big-game rifle, do not consider one with short eye relief, placing the ocular lens too close to the eye. Eye relief should be three to five inches, as in the Lyman Alaskan, the Weaver 330, and the Noske Type A.

Next, as to point of aim: In most fast running shooting and in much deliberate offhand shooting in the timber, the tendency is to put the bead right where one wishes the bullet to strike. Hence, for most timber hunters and particularly for amateur hunters, it is usually best to sight the rifle so the shots will print right under the center of the front sight bead for all close-range timber shooting.

For more experienced shooters and for longer-ranged weapons used in more open country, where the rifle is sighted for longest practical point-blank ranges, it is best to sight the weapon so the bullet will strike exactly where the top edge of the bead or blade front sight rests, rather than down under the center of the bead.

With telescope sights, whether for timber shooting or shooting in open country, the group should form right under the center of the dot (if Lee Center Dot reticule is used), or at the intersection of the cross hairs, at the point-blank range selected. With a post reticule of whatever shape, the group should form at the top edge of the post.

Bead front sights with a rounded top and sides are best suited for timber shooting and are not as good for long-range work as flat-top post front sights. However, the round ivory or gold bead is a beautiful thing in the timber.

When you have your rifle perfectly zeroed for point-blank range on a paper target, take it into the hills or timber and do some careful range estimation, shooting at neutral-colored targets. Last but not least, when you do get your shot at deer, elk, moose, or whatever, aim for the vital spot, never just at the animal as a whole. ◆ ◆ ◆

The Rifle in South Africa

(Continued from page 7)

a hit. Those loathsome brutes are no more dangerous wounded than at any other time, and I will shoot at them whenever a chance presents itself. They are treacherous, bloodthirsty devils which kill thousands of head of game, many domestic animals, and a goodly number of natives every year. One of my greatest pleasures was to hear the thud of a bullet in a tough hide as I lay partly concealed on the bank of an African stream and shot at them as they came out to sun themselves on the sand bars or banks.

In looking at my list of rifles, it may occur to you that the .22 has really no place in African shooting. This is not true. Africa is full of small game, both furred and feathered. On my earlier big-game shoots I took a 12 gauge shotgun which was excellent for guinea fowl, the large francolins (partridge family) and the small antelopes such as the dik-dik, steinbok, and dyker. On later trips, however, I took a .22 rifle with scope sight. The weapon itself is considerably lighter than the 12 gauge, and the ammunition is many times lighter and cheaper with the added advantage that its report doesn't frighten more important game nearly so much.

I did not use the 6.5 Mannlicher much in Africa, as I found the .30-'06 far better for general use on medium and large thin-skinned game. I used the .360 double-barrel at times in place of the .30-'06 because it was such a beautiful little weapon, came to the shoulder so nicely, and had the best telescope sight on it that I have ever known. It shot a 300-grain bullet at 1,950 f.s. muzzle velocity and developed 2,540 f.p. muzzle energy; a lightweight both in velocity and energy as compared to the more modern high-velocity ammunition, but nevertheless the heavy 300-grain blunt-nosed bullet was quite a killer at short ranges. The double-barrel .470 fired a 500-grain bullet at 2,125 f.s. muzzle velocity and gave 5,030 f.p. muzzle energy.

I may say here that the kick of these big rifles is greatly exaggerated. Shot at a target they do give one a nasty jolt, but when shot at game, and especially at dangerous game, you will not feel the kick at all! For the last fifteen or twenty years I have weighed between 135 and 140 pounds, and have no fat at all to pad my shoulder; but one morning in a battle with a big, old, maned lion I fired five shots from the .470 in less than half an hour without once feeling any recoil. I will admit that my shoulder was a bit discolored the next morning, but at the time of the firing I didn't even realize that the rifle had any kick to it at all.

It weighed around thirteen pounds, and during the eleven years that I owned it I fired it approximately fourteen times. This included one shot with each barrel at a target at fifty yards when I bought it; five shots at two rhinos; one shot at a hippo; one shot at a buffalo, and five shots (previously mentioned) at a lion. The first time I fired this rifle at game was on a trip to the Sebungwe District of Southern Rhodesia. We got to our main camp about two o'clock in the afternoon, and with our rifles and gun bearers, made a circle to look over the country. On game trails and at the water hole we saw comparatively fresh spoor of leopards, lions, buffalo, rhinos, and elephants, besides almost all of the large antelopes. Coming back to camp Walker said half jokingly that he wasn't too sure our camp would be a pleasant one, as there were so many rhino tracks all about that he was afraid we might get a visit from one of those pugnacious beasts.

After a late dinner we sat around a roaring campfire and discussed plans for the next day. Moving back from the heat of the fire, I became aware of something rustling in the dry mopane leaves. At first I thought it was some small animal, but there seemed something ponderous about the crunching of the dead fallen leaves.

"Harry," I said in a whisper, "there's something moving out there." I hurried into my tent and got the .470 and a five-cell flashlight.

Walker's rifle was leaning against a tree near him, and as I came out he picked it up and got to his feet. I threw the light in the direction from which I had heard the rustling. There, exactly twelve feet from where I had been sitting (we measured from the spoor the next day) was a huge bull rhino, prancing in rage and getting ready for a charge.

As the flash lit on our visitor, Walker fired. The blinding glare of the flashlight, plus the 300-grain bullet, were a little too much for our marauder, and he whirled and lumbered away. Walker fired once more; and, after I had passed the flashlight to Jappie, I got in one shot.

We were on the trail early the next morning. We found blood a plenty, and some three-quarters of an hour after we started, we came up with the old boy standing in a bit of thick bush. All three of our shots the night before were hits, but that dainty little three-ton bundle of viciousness had plenty of life left to make a determined charge, requiring a shot each from Walker and me to finish him.

Two days later we followed the spoor of another big bull and found him about ten o'clock in the morning, bedded up for the day. I hit this one once high through the lungs from the side as he jumped up. He charged blindly back along his own spoor, and I was able to get him with the second barrel, hitting him back of the ribs and ranging forward into the chest cavity. This brought him down and another shot in the neck finished him so I had my rhino.

My one and only buffalo was one of a pair of great old bulls whose spoor we struck one morning and followed up. About nine o'clock we came over a small hill and saw one of them feeding on the slope of the next hill. Ducking back before we were seen, we cut around to come up from the side as the wind was more favorable from that direction. We had fairly good cover until we were within some 200 yards of our quarry, then the three of us, Harry, Jappie, and I, went forward on hands and knees through the sparse grass.

After we had gone some distance forward the old buffalo became aware of us, stood very straight and stared in our direction. After taking a good look, he began to walk towards us until he was within eighty or a hundred yards. We were all three in khaki, on our hands and knees. I am convinced the buffalo thought we were lions attempting a daylight stalk, and came closer to make sure before retreating. When he stopped, he was facing me, his head held high.

Harry whispered, "Better shoot now. If he goes away, he'll go fast."

Sitting down, elbows on knees, I eased off the shot. The

thud of the bullet in living flesh signalled a hit, but he was around like a flash and into some thick bush before I could get in a second shot.

The buffalo is considered by most old hunters as the most deadly of all African game because of his vindictiveness and intelligence, but he has one very delightful habit which no other of the dangerous brotherhood has—he'll let you know when the battle is over. As we rushed up to the crest of the hill, we heard from the little valley on the other side the mournful bellow that a buffalo gives with his last breath.

I have spoken about owning the .470 for eleven years, and only firing it some fourteen times, which brings to mind the question of the number of shots one actually fires on a big-game shoot in Africa. The newcomer usually has 400 to 500 cartridges with him and, of course, a real game hog in that plenteous land could burn a lot of powder. The true sportsman who wants only one or two heads of the game most plentiful in the sections in which he hunts would be surprised to find how relatively few cartridges are needed, especially if he works on the plan recommended, of stalking his game close enough to put his first shot in the right spot.

On one's first trip to a new, teeming game field, such as Africa, every kind of animal encountered is a trophy, but even then common sense would show that one or two head of game each day would be all that could be handled properly. Heads must be skinned out and prepared for curing, and the meat must be brought to camp. Later, when you have shot one of each of most of the common species of the section, you will fire less than an average of one cartridge per day. Seeking only the rarer beasts, or an outstanding head, several days may pass without a shot fired.

Left to right: Manton double-barrel .470; Bock double .360-400 with 4X Zeiss scope; Remington Model 30S .30-'06 with 4X Gerard scope; Mannlicher 6.5 mm. with 4X Mignon scope; Winchester .22 automatic, altered to take H.V. cartridges, fitted with 4X Goerz-Certar scope.

On a trip to the Nuanetzi River in Southern Rhodesia, I was in camp twelve days. I fired a total of fifteen shots with the rifle and got ten head of game, including an eland, two kudu, a sable, a roan, a waterbuck, a bushbuck, and a zebra. On the trip into Northern Rhodesia, I was in the bush about twenty-two days, firing a total of thirty-eight shots with the rifle, killing twenty head of big game.

On the trip to the Sebungwe district of Southern Rhodesia, I was in the bush about twenty days, fired a total of twenty-six shots, nineteen with the .30-'06, and seven with the .470, with a bag of seventeen head of big game.

Of course, even the experienced hunter will take more cartridges than he actually needs, as it would be a terrible thing to have the ammunition for one's favorite rifle run out before the trip was finished. Anyone coming there for a trip of not more than two months would hardly need more than 150 cartridges for his general rifle, plus twenty full-jacketed and ten expanding cartridges for the second rifle, if one is brought. ♦ ♦ ♦

Midshipman Marksmanship

(Continued from page 11)

course with the rifle, training is begun with the M1 carbine. Weapons are not issued to individual midshipmen and the same sixty carbines are used by the class of a thousand or more plebes. This necessitated a system of sighting in the weapons, as follows:

The carbines are equipped with the set "L" sight, designed for 150 and 300 yards. Upon testing, these sights were found to be inaccurate; so our range personnel fired each of the sixty carbines at 200 yards with both the high and the low sights. If either sight setting produced good results, the stock of that carbine was marked "L" or "H" to indicate which sight leaf should be used. If neither sight setting afforded good results, the front sight was filed down until the shots fell in the black and the gun marked accordingly. Using these sight settings, the shooter can hold at six o'clock at 200 yards, or take more or less white at 100 yards as determined by his sighting shots, two of which are allowed each shooter at each range to familiarize him with the weapon.

Midshipmen next fire Navy Pistol Course "C" with the .45 caliber automatic pistol. Shotgun training includes both trap and skeet shooting. Later class periods are devoted to familiarization courses covering the M1 rifle, the Browning Automatic Rifle, the Thompson Submachine Gun, the 81 mm. mortar, and the 20 mm. Oerlikon antiaircraft gun.

Results have been highly satisfactory. Over 40 per cent of last year's class qualified Expert with the carbine, and less than 2 per cent failed to qualify at least Marksman. Pistol qualification showed 40 per cent qualifying Marksman or better and every man at least familiar with the weapon.

The development of interest and enthusiasm was evident when more than a hundred midshipmen reported for the .22 caliber indoor plebe rifle team and more than fifty reported for the .22 caliber indoor pistol team—this in spite of the fact that the call was issued simultaneously with the call for plebe candidates for six other winter sports. ♦ ♦ ♦

BRIDGEPORT, CONN., OCT. 1944

Rifle Remingt

Possibles and Impossibles

by FRANK J. KAHRS

One of my readers has just told me about an interesting incident that recently took place at a rifle and pistol club range in Rochester, New York.

Several weeks ago the club started a training class with fourteen girls from a large Rochester industry as trainees. After three weeks of instruction one of the girls showed unmistakable signs of being a "natural" as it were, even with a rifle that was not what might be classed as a Model 37 Rangemaster, for instance.

As a matter of fact, one of the members of the club, who, by the way, recognizes talent when he sees it, thought it would be an interesting experiment to let the little lady shoot a real gun, and so after proper introductions as to the type of gun and what might be expected of it, the gal took over and with a remark that sounded like, "Why didn't somebody tell me this sooner? ", proceeded to knock out a possible for 10 shots.

Now that wasn't any luck because she has since shot consistently from 97 to 99 prone and 92 to 97 sitting, which are the only positions she has used so far. Anyhow it's interesting and we hope to have something more to add to this story later on.

* * *

It's been pretty hot in Florida this summer the boys tell me, and they laid off shooting somewhat, even though they have that swell covered firing point that I told you about sometime back.

The 9th Annual Florida West Coast Small Bore Championship will be held at Clearwater, November 11th and 12th, and this will about open the fall season. Anyone who wants a good time and some nice shooting better go down there. We'll be there in December for a bit of shooting ourselves.

* * *

It seems to me that it is about time I put in a plug for the Lone Star State. After World War I, there was some question about who won the war. Whether this question was ever settled or not is not the point. We are going to have the same problem and uncertainty after this war, but there is one thing fairly certain, however, and that is Texas will have to be considered.

There are surely a lot of Texans in this man's war. But, seriously, Texas is an up-and-coming state, no question about that, all of which leads me to say that down on the Rio Grande (that means Grand River), there is a real live bunch of rifle shooters banded together in a rifle and pistol club at McAllen, Texas. They have just concluded their first small bore meet, called the Lower Rio Grande Valley First Annual Small Bore Indoor Meet, held at McAllen, Texas, the night of August 3.

Here's what a club member writes:

"The meet was a real success. There were thirteen 5-man teams entered for the matches, and a crowd of some five hundred witnessed the shoot. The host club provided a new range for the night complete with new sealed beam lights and it was really a honey. Texas State Guard units from Donna, Alamo, McAllen, army officers and enlisted men from Moore Field and the host club made up the entries.

"A Texas State Guard Company from Donna copped high honors in the Class "A" division and the McAllen Pre-Induction Class walked off with high honors in the Class "B" Division. Of the 81 shooters represented in the meet, 27 of them were of pre-induction age. The McAllen club alone entered twelve in this group.

"The McAllen club has a total of 32 pre-induction age boys on their membership list and have sent that many more into the armed forces, including two instructors.

"There are several Remington 37's in the club and we really like those guns. We also like your "Targetmaster" ammunition although we cannot obtain any more at this time. We are anxious to get some of this if possible."

NIGHT SHOOT LIGHTS INSTALLED BY CLUB MEMBERS IN SPARE TIME

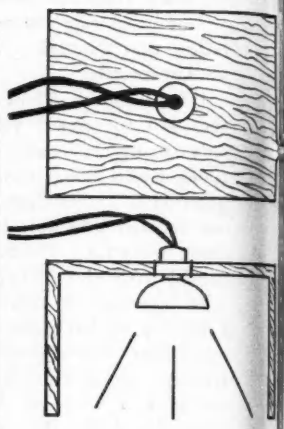
KITTANNING, PENNA.—Lights for night shooting at the Kittanning, Pennsylvania range were installed at moderate cost, a club official said.

Construction is comparatively simple and was done with available materials. The lighting system, which was designed and installed by live-wire club members in their spare time, hooks into the club's 115 volt electric light circuit.

Each of the fifty targets is lighted with a 150 watt projector lamp. The lamps are mounted in wooden dynamite boxes about the length and width, but twice the depth of wooden cases used to pack 10,000 Remington Targetmaster 22's. The lights and targets are five feet apart with a light for each position.

Each light was focused with a light meter for uniformity, and thrown on the second target down the line in order to light the backing target and permit spotting.

The club range is located in a small valley between two hills, and on cool nights there is frequently a heavy mist. This has been overcome by the ingenuity of club members who installed portable electric fans at the 50-yard firing line. When mist forms the fans are turned on and the mist is quickly blown away.



Construction details are available to any club interested in installing lights for night shooting. Just write to Rifle Promotion Section, Remington Arms Company, Inc., Bridgeport 2, Conn.

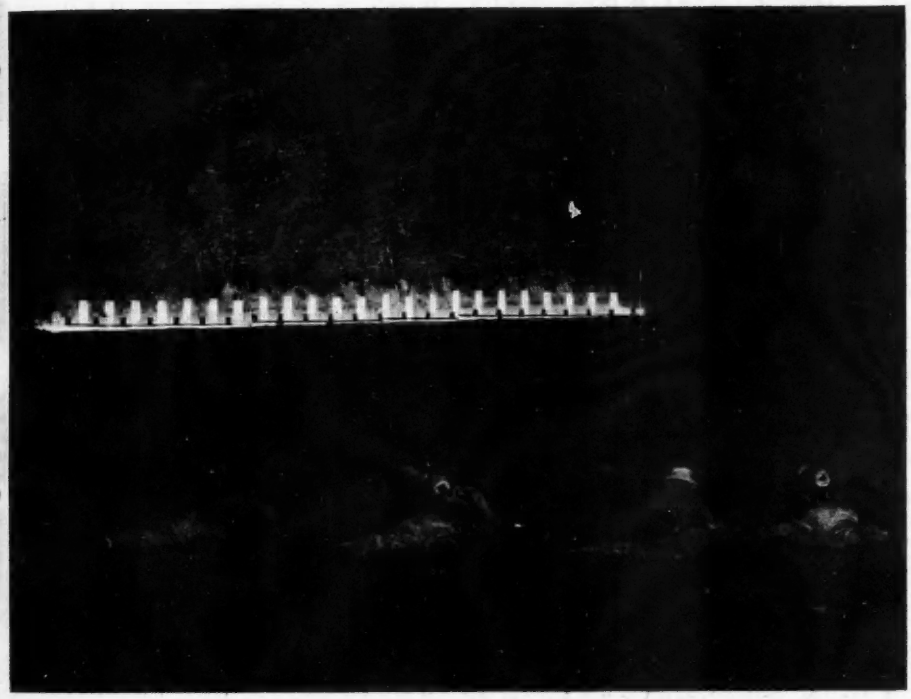
THERE'S ONE IN EVERY CLUB . . . . *The Gadgeteer*

THAT'S SOME NEW FIRE-CONTROL MECHANISM HE'S JUST INVENTED, BUT HE STILL CAN'T HIT THE 10-RING!
GUESS HE NEVER TRIED REMINGTON PALMA KLEANBORE AMMUNITION

Remington Arms Co. Inc. **News**

A PAPER FOR PEOPLE WHO SHOOT

PENNSYLVANIA CLUB HOLDS RECORD ALL-NIGHT SHOOT



Night shooting in Kittanning, Penna. Looks like they're shooting at an old fashioned theater backdrop, doesn't it? But it's a night view showing twenty-five of the fifty targets on the well lighted range of the hunting and fishing club at Kittanning, Pa. Note that the photographer took this picture as two shooters fired, as shown by muzzle flashes.

High scoring marks club's first all-night event on well lighted range

KITTANNING, PENNA. — On July 10th the local hunting and fishing club held an all-night shoot, the first of its kind in this area, which was perhaps the most successful and widely attended of any ever held.

Scoring hit the upper brackets for night shooting, aided by the unique lighting system at this club. There are fifty firing points and each target has almost 100 foot candles of light. No less than seventeen shooters scored 200 x 200.

In the first match, a 20-shot, 50-yard any sights event, the winner among ninety-two shooters had a possible with 17 X's. The second match, 100 yards any sights, was won with a score of 200 and 16 X's. There were ninety-six in this match, seven of whom scored possibles.

The third match was a 50-yard iron sights event. Five possibles were chalked up. The fourth event was shot at 100 yards with iron sights, and won with a possible and 12 X's.

The fifth match was a 5-man team affair, with seven teams competing. The team getting the nod scored 1994 and 141 X's, with the runners-up also scoring 1994 but with 119 X's. The any-sights aggregate went for 400 with 31 X's, and the grand aggregate winners scored 798 and 51 X's.

Night shooting, of course, isn't anything new. Some thirty years ago there were regularly scheduled matches at 1,000 yards at Sea Girt, Camp Perry and other places. And recently night shooting has been especially popular in California and some other parts of the country.

But from all reports, this match really put up night shooting in a streamlined, de luxe package.

Shooters Who Want X-Ring Scores Urged To Use Remington Targetmaster And Palma Kleanbore 22's When Available

BRIDGEPORT, CONN.—When a shooter settles into position, takes a deep breath, knowing that every shot has got to be plumb center, it is good for him to know he is shooting Remington.

A careful hold, a gentle squeeze, and ZIP—a look through the spotting scope and there it is—looking at the shooter—another shot in the X-ring.

It is hoped that the time will not be too far off when Remington match ammunition will be available again, and when it is, shooters can count on Remington Targetmaster or Palma Kleanbore for X-ring accuracy.

Targetmaster, Palma, Kleanbore and Rangemaster are Reg. U. S. Pat. Off. by Remington Arms Co., Inc.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

EXECUTIVE COMMITTEE MEETING

At a regular meeting of the Association's Executive Committee, held in Washington on July 22, 1944, the following changes were authorized by the Committee:

Paragraph 5-38 of the NRA Pistol Rules was amended to read: "When to Score . . . Targets are scored after each five-shot string, except that in *class C tournaments and* at ranges of 50 yards and over they may be scored after each ten shots." (The words in italics constitute the amendment. The purpose of this change is to conserve targets and manpower during the emergency.)

By unanimous action of the Committee all classes of individual membership, except junior members, hereafter will be limited to U. S. citizens eighteen years of age or older. Previously, there had been no age limit on life or endowment memberships.

Colonel Gilbert E. Parker, present D.C.M., was elected to fill the vacancy on the Board and Executive Committee, caused by the resignation of Colonel B. W. Mills, former Director of Civilian Marksmanship, who was injured in a traffic accident last spring.

Mr. Harry M. Pope, well-known rifleman and barrel maker, was honored by the Committee's adoption of the following resolution: MOVED, That a perpetual trophy to be known as The H. M. Pope Trophy be now provided for annual competition at the Association's National Championship Matches in recognition of Mr. Pope's unique contribution to the progress of small-arms marksmanship and small-arms manufacture in the United States. The conditions of award will be determined by the Executive Committee when the National Championship Program is renewed. The Secretary of the Association will procure a suitable trophy."

The Annual Meeting of Members of NRA for election of Directors and transaction of other business will be held in the Pan-American Room, Hotel Statler, Washington, D. C., Friday, October 6, 1944, at 8 o'clock p. m.

NRA FIELD OFFICE

Members and member clubs in the States of Illinois, Indiana, Minnesota, and Wisconsin will be interested to know that an NRA Field Office has just been established in that area. Located in the City of Elkhart, Indiana, approximately the geographic center of the territory to be served, the new field office is in charge of Mr. W. Dow Smith, well-known Indiana shooter and instructor.

Mr. Smith will spend a great deal of his time visiting clubs and members in the states mentioned, as an important mission of the field office is to encourage the organization of community clubs, assist in the location and construction of club ranges, and generally to improve NRA service in the area served.

Opening of the Indiana office is a further step in the direction of improving the lot of shooter-sportsmen and increasing their numbers. The long-range plan provides for additional field offices which will be established as NRA finances permit.

Club officers and individual members in the states above-named may obtain any NRA information, literature, or assistance by contacting Mr. W. Dow Smith, Manager, NRA Field Office, Orpheum Theater Building (Telephone 4040), Elkhart, Indiana.

L. M. Rumsey, Jr.

Lieutenant Colonel L. M. Rumsey, Jr., O. R. C. (ret'd), of St. Louis, died on August 28, 1944, at the home of his brother, Lieutenant Colonel H. S. Rumsey, in Bradenton, Florida. He was 68 years of age. A heart condition had forced him to retire from the vice-presidency of the Mississippi Valley Trust Company in 1942. Subsequently he spent a considerable part of his time at Bradenton where he served as a member of the Coast Guard Auxiliary on off-shore patrol in the Gulf of Mexico.

A native of St. Louis, he was a graduate of Washington University where he played on the football team in the days when ruggedness took the place of headgear and harness. He served as a Captain, Missouri National Guard, in the Spanish-American War and in World War I. He continued to serve as a Reserve Officer after the war and it was a keen disappointment to him that his health and age prevented him from active service in the current war.

Lew Rumsey believed in the National Rifle Association and its program with all his heart. Only once, during the period of his most serious illness, did he miss a meeting of the Association's Executive Committee to which he was elected in 1926. He was appointed a member of the War Department's National Board for Promotion of Rifle Practice in that same year. He was still a member of the Board at the time of his death. He was elected 2nd Vice-President of the Association in 1926 and President in 1928. Finishing his tenure of office as President in 1930, he was elected to the Executive Council, on which he was serving as Chairman of the Finance Committee at the time of his death.

Never an outstanding competitive shot, Lew devoted much of his time and personal fortune to the development of the shooting game. He captained the Missouri Civilian Team at the water-logged matches at Caldwell in 1919. From then until 1941 he was present at every National Match as a competitor or range officer. He was a familiar and popular figure on the pistol range where he served as Chief Range Officer through most of the "20's." Serving as a member of the NRA pistol rules committee he was largely responsible for the development of the Association's pistol program accenting the Service pistol, the .38 special revolver and the .22 program over the National Match course. At the time of his death he was studying the problem of rules required to add more "surprise fire" and "Olympic Bobbers" type of pistol matches to the NRA program.

Lew Rumsey was the living image of all the good that is meant by the oft-misused term "sportsman." Honesty and fair play were his fetish. There was no place in his scheme of living for the poor loser, the chiseler, the whiner, or the coward. For many years he carried smilingly and without a word of complaint or self-pity burdens which would have broken a less rugged, well-balanced man. At the end he went his way as he had wished to go—quickly, quietly, and "without bothering anyone." Several years ago he was requested to send us a record of his activities in the shooting world. That questionnaire is still on file. It reads: "L. M. Rumsey, Lt. Col., O. R. C. Born 1876—record unimportant."

In the death of Lew Rumsey the National Rifle Association and the entire shooting world has lost one of its hardest workers, one of its most stimulating characters, one of its finest sportsmen. I have lost a great and fine friend.

—C. B. L.

COMING EVENTS

California—October 15: San Francisco Police Dept. Monthly Pistol Tournament. E. J. Dutil, 324 16th Avenue, San Francisco.

November 19: San Francisco Police Dept. Monthly Pistol Tournament, San Francisco. E. J. Dutil, 324 16th Avenue, San Francisco.

Florida—November 11-12: Florida West Coast Small Bore Championships, Clearwater. L. W. Abrams, 705 Prospect, Clearwater.

Iowa—October 15: Scott County Sportsmen Third Annual Pistol Tournament, Muscatine. J. G. Johnston, 219 West 7th Street, Muscatine.

Kentucky—October 8: Kentucky-Indiana and Ohio Class C Open Pistol Tournament. J. R. Shelton, 408 Delmar Place, Covington.

New York—October 8: Second Annual Small Bore Tournament, Bethpage, L. I. R. C. Bowman, Guard Hdqrs. Plant #2, Grumman Aircraft Engineering Corporation, Bethpage, L. I.

Unregistered

New York—October 14-15: Indoor Gallery Tournament, Springfield Gardens. James A. West, 179-26 143rd Ave., Springfield Gardens.

Pennsylvania—October 21-22: First Annual Indoor Smallbore Rifle Match, Upland. Harry Kissinger, 1008 Second Avenue, Prospect Park.

STOLEN GUNS

One commercial Colt .45 automatic, Number C-143485. Ted A. Blair, 1015 Toledo Trust Building, Toledo 4, Ohio.

One Smith & Wesson K22, Number 673947. W. R. Chrisler, 6901 Passaic Street, Huntington Park, California.

One U. S. Army Colt .45 automatic, Model 1911A1, Number 718013. Commanding Officer, USS Fury, (PG-69), Fleet Post Office, N. Y.

One Colt National Match .45 auto., Number C-150908. W. F. Cummings, Brinson, Ga.

One Smith & Wesson revolver, Number 72364. Canadian Naval Liaison Officer, Pier 8, U. S. Naval Frontier Base, Staten Island, N. Y.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Hornet Improvement · Case and Bullet · Barrel and Bedding · Weatherby Swift First Version · Donaldson Throating · Leroy Cores for Lead Bullets · Newcomb Gas Check Dope · Gallinger Lead Loads Gold Plated Cases · Trade Dope ·

.22 EXPERIMENTS BY WOTKYNS

My friend, Grosvenor L. Wotkyns, father of the Hornet, Swift, and 8-S bullets, gets my vote for first place on the ballot of .22-caliber authorities. While playing with the Wotkyns Arrow and Varminter, he has not neglected the little Hornet. In an effort to improve and augment the bullet-pull weakness of that thin-neck case, he added a crimp at the mouth of the loaded cartridge about .05 wide and .002 deep into the jacket of the bullet. It drew the extreme verticals together and resulted in minute-of-angle groups. Then he made a 40-grain jacketed bullet heavier at the base and fired it through tough ¼-inch cold-rolled steel at 100 yards with 12½ grains of No. 2400 in the little .22 Hornet case.

He put Model 70 Winchester barrels of .220-Swift caliber on Springfield actions and chambered one for the .220 Arrow and the other for the Varminter. These were sporting-type barrels. He packed the barrel ahead of the Winchester fore-end lug, which latter was freed and the gun then fired before drawing up the screw, as was suggested by Bert Popowski. The only trick about it was to get the packing band at an anti-nodal or overtone point of the barrel vibration. These rifles both performed amazingly well until one throat had eroded about three inches and the other a little less. It was the first time Wotkyns had gotten superb accuracy with any light barrel tied down tightly to the fore stock. After erosion he freebored the Varminter by removing the lands to leave a cylindrical portion about three inches long. In the .220 Arrow he did the same for an extent of one inch. These freebored sections supported the bullet and cut off all gas escape. The bullet was .224 at the base with a .05-inch band of .2255-inch diameter where the ogive joined the .224-inch cylinder. These two rifles produced half-minute groups. The old load was a 56-grain .2245-inch Wotkyns-Morse 8-S bullet with 25 grains, measured, of No. 4759 and the No. 115 Winchester primer. The two sporters weighed ten pounds with scope and sling.

The latest attempted improvement on the factory .220 Swift was called to my attention by Roy E. Weatherby, who has reshaped the case shoulder into an abrupt rounded form until it resembles a typical Kilbourn job. He tried 43 grains of No. 4064 and got too much pressure with the 55-grain bullet. His regular load is between 40 and 41 grains. But this regular load penetrates ½-inch armor plate at 50 yards which the factory Swift will not do at 25 yards. His average accuracy is just under 1½ inches at 100 yards. We have received a sample case and agree with Weatherby it should do better after his rifle has been freebored 1½ inches ahead of the chamber, given a heavy load of No. 4350, and a much heavier bullet of larger diameter. That is .228, .240 or .257 caliber.

Because he feared some amateur loader might get in trouble with this shape of case, Weatherby has changed it to a straight 30° taper at the shoulder and is getting more uniform results in the same .224 caliber. This new shoulder makes the loading far less critical.

DONALDSON THROATING METHOD

Harvey A. Donaldson is an old-timer in the shooting game who is aware of the importance of proper throating in the interests of accuracy and bore life. His design of throat works even better when the groove diameter is .001 inch smaller than the bullet diameter because it emphasizes, what he calls, a "reverse curve." To insure getting the throat right and in the right place, he makes up a checking gage of a second piece of barrel for a preview. If it has the same groove diameter, the gage will help get everything right and properly located before the rifle is throated. The piece of barrel is chambered, and a dummy cartridge of the desired seating depth is used for spotting. In order to see the throat clearly, a section of the barrel, or gage, is cut away at that point to permit direct observation. By checking with the dummy, the exact depth the throating reamer must enter is readily determined. The throat starts at the mouth of the case and follows the curve of the bullet's ogive. It is such a slight curve that it cannot be clearly shown in a sketch, and it defeats description. Its purpose is to contain and fit the bullet for guidance and still let it slip easily into the bore.

After reaming, Harvey laps his throat smooth with a bronze lap, to fit his bullet perfectly. His own rifles shoot well and have a long life, and he successfully uses oversize bullets (.001 inch larger than his groove diameter) in the Hornet and 2R Lovell. Harvey gives much, if not most, of the credit to his throating.

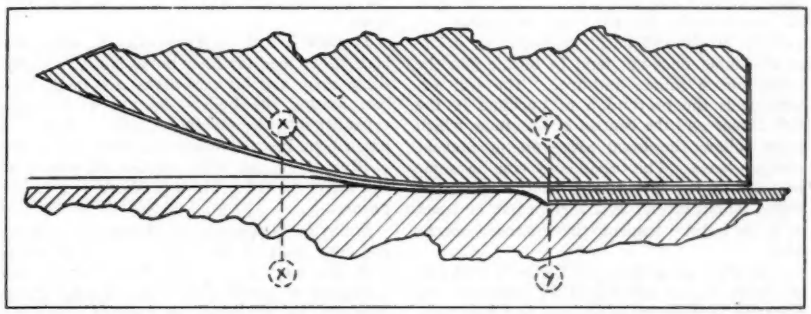
A. R. Weeks wrote me recently that he could not get his new 2R Lovell barrel to shoot until he lapped out the throat, with a dummy cartridge, to fit his bullet, and that is exactly what the Donaldson throat does.

"VARMINTER" IS REGISTERED

Although we have mentioned this fact before in these columns, it is time to do so again. J. E. Gebby originated the name "Varminter" for his wildcat cartridge and, as a measure of self-protection, had it registered as a trademark. He does not permit its application to competitive copies of his chamber and cartridge. He has permitted four or five of our leading makers of reloading tools to use the name on their tools for the Gebby "Varminter" caliber, but he has permitted no gunsmith to use the name on his barrels or in advertising literature. This applies also to obvious modifications or misspellings of the word, such as, "Varmiter," or "Varmter." Jerry is a fine workman and does not want his patented title used on an inferior job.

The original "Varminter" was carefully developed by G. L. Wotkyns, J. E. Gebby, and J. Bushnell Smith, and sundry assistants had their hands in its development too. The .250 Savage case was used with Wotkyns-Sweany and Wotkyn-Morse bullets of .224-inch diameter. Gebby throated his jobs specially for these long-cylinder spire-pointed bullets. Since then, there have been many good copies of the "Varminter" made and featured by as many different gunsmiths for the same bullets and for different bullets. In addition to the original case, many other cases of the same size are now used for basic brass in all these chambers, including the Gebby make. Some of these standard cases so used are: .30-'06, .300 Savage, 8 mm., 7mm.; 257 Roberts, and .256 Newton. In our Gebby Varminter we have used all these cases as converted by ourselves, by O. M. Smith, and by C. G. Moffat. Moffat and the various gunsmiths involved have agreed to use the title, ".22-.250," followed by their own name, in place of the registered title, "Varminter."

Because of differences in brass thickness and in interior shape, the capacity varies in the different kinds and makes of cases used for this caliber, or for any given chamber. Therefore, if the handloader changes from a familiar lot of brass to an untried lot he may have to reduce his maximum loads as much as two grain's weight. One of the strongest cases is the modern 7 mm. made with a heavy web



The heavy line (y to x) shows the approximate curve of the Donaldson Throat

and the more modern .257 Roberts made the same way. One of the most variable cases used in these same chambers is the .30-'06, which calls for adjustment of the powder load in some lots. A simple check would be to pour the old and new cases level full of fine bird shot or powder and compare them by weight. Weigh the empty cases also, for deduction, in order to get the net relative capacity.

CUSTOM GOATSKIN GUN CASES

Basil Tuller, of Galeton, Pa., is known in farming communities as a 500-yard chuck shooter. At small-bore tournaments he is known as a dangerous competitor. Nationally, he is known as a fine leather worker on account of his shooting mitts, scope covers, and gun cases. He has been featuring custom cases of the finest quality, whenever high-grade materials were available. He uses fine goatskin with the Angora wool inside and either Talon

Tuller Custom Case for Rifle and Scope

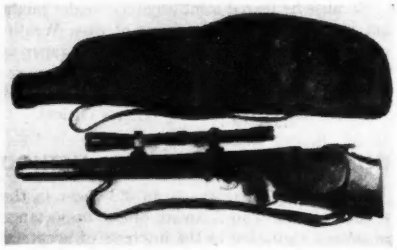
or Zipper hookless fasteners. From an outline of your gun and scope he makes a templet, and then proceeds to make a quality case which fits like a glove but which accepts and releases the gun freely. We know Tuller knows his stuff. For proof, we point to the photos of his cases for our rifles.

LEAD BULLET DOPE

V. E. Leroy, of East Lansing, Michigan, puts a ⅛-inch backbone of brass, or iron, in his lead-alloy bullets. He uses a hollow-point mold and uses the brass rod instead of the mold plug, and he tins it and leaves it in the bullet as a core instead of pulling it out to leave the conventional cavity. After sizing, he trims off the protruding ends of the rod. In his Bond bullet seater a ⅛-inch point-clearance hole accommodates the rod, at the tip of the bullet, holds it, and guides in a straight line into the case mouth. See the cuts. A further advantage of the stiff backbone comes in sizing, as the bullet does not tend to buckle and the bases remain square and true. The real advantage is the prevention of buckling in the rifle throat and the control of upsettage which must follow the brass axis and so prevent oblique bases. This may hold true in some measure at the muzzle also as the reinforced bullet cannot emerge in a slight curve or bend, as is the natural tendency from uneven muzzle blast.

Incidental advantages are the permitted employment of soft alloys and the control of lubrication in an increased amount and flow, from the first band in the front end of the cylindrical portion of the bullet. This is accomplished by cutting the first groove through to the brass core and filling this wide and deep groove with grease which is then squeezed out as the bullet moves forward from the case into the barrel. Because there is no tipping or uneven swaging during forcement, friction is greatly reduced and much heavier loads are permitted

Tuller Custom Case for a Bull Pup



behind these reinforced bullets providing they are adequately lubricated and equipped with gas checks. Theoretically, this should also give better accuracy with lead-alloy bullets at full gas-check velocities or higher.

Because of the primer shortage, Leroy has not done enough shooting to determine any gain in accuracy. However, he has done enough to indicate that five to ten additional grain's weight of HiVel No. 2 can be used in the .30-'06 behind these bullets without developing enough extra frictional heat to melt the soft alloy he uses. They were used .309-inch diameter, although he prefers a smaller, or bore-size, diameter with a .220-inch hollow tube and a .080-inch coat of lead alloy. However, he has found no adequate method of tinning the inside of the tube. Those bullets fired into sand disappeared entirely. In the earth, the lead went and left the brass rod in a bent lump.

Truman J. Ball, of Heyworth, Ill., found his best .30-'06 load for Ideal bullet No. 308334, by sizing them and his case necks .308 inch. Before seating the bullets, he ran a .311-inch expander into the mouth for only ⅛ inch and pressed an Ipco wad over it. With 30 grains of Pyro D.G. this load outshot all others of the many he tried. He uses Western No. 8½ primers.

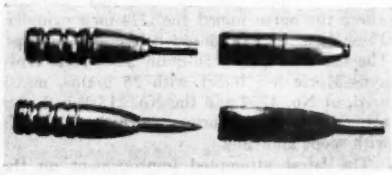
Philip P. Newcomb, of Manchester, Conn., has done most of his shooting in recent years with lead-alloy bullets, on which he has made a number of worth-while observations. Some time ago we published his findings about gas checks. In shooting over snow he found the copper cups often left their bullets near the muzzle and that the number of fliers registered on his target corresponded closely with the number of gas checks he found on the snow in front of his shooting bench. He believes they part company with the bullet bases in the throat of the rifle, particularly when the base and cup are seated deeper than the case neck, into the combustion room. He visualized improved shooting from improved gas checks and suggested concaved bases as one of the possible improvements. Walter Van Curren, of Estacada, Oregon, may have read that, or he got the idea from his own shooting of gas checks, because he sent us a lot of concaved cups for our test in .30 caliber rifles, not yet done.

This year, Newcomb wrote me as follows, in part: "My shooting has shown me that leading with alloy bullets is primarily caused by failure of the lubricating film, between bullet and barrel.

"When the rifle is fired, the base of the bullet expands before the nose starts, causing the sides to bear on the chamber, throat, or bore, wherever it may be. When the bullet starts to move, the gun will lead, if the pressure on the walls exerted by the bullet is enough to break down the film, and this leading will continue until the breech pressure on the bullet is low enough to relieve the side pressure so that a lubricating pressure may be maintained.

"Bullets are, of course, distorted in passing from chamber to rifling, and the greater this distortion the greater the chances for leading and poor shooting. I have been unable to obtain dies to test bore-diameter bullets, due to present conditions, but I do know that groove-diameter bullets give better results than the usual oversize recommended.

"The claim that the edges of the bullet base are eroded by powder blast and cause leading, to my mind, is not wholly true, as the same blast will melt, or at least carry, more lubricant along the bore, mixed with the molten lead, and I have never been able to solder oily steel. It can happen, but I don't believe it does very often. Anyway, I am sure any 10-1 alloy, properly gas-checked, and grooves full of lubricant, seated to the rifling, not more than .0015-inch over groove diameter, may be loaded and shot at pressures up to 30,000 pounds with no leading. The velocity will depend on the weight, and the accuracy will depend on the quality of the bullets; how well they are loaded, and how much they are distorted in firing.



Leroy's Brass- or Iron-Backboned Bullets

"I do not know how small an alloy bullet may be in relation to the bore, but if I can get a bullet that is just fully in the rifling when it has just expanded to the groove diameter in a rifle with a long chamfered, and polished leed, I am willing to bet I can get 9,000 f.s. with that bullet, even if I have to load a hatful of grease wads behind it.

"By the way, the newer 100-grain pointed ammunition, in the .257 Roberts Model 70,

shoots up to the advertised claims and is good for 1½-minute groups. This is nearly an inch better, at 100 yards, than the round-nose open points."

Wilber Gallinger, of Tofield, Alberta, has tried in vain to get accuracy with the accurate Ideal-Loverin gas-check bullet No. 225438 in his .220 Swift and Hornet. This bullet, cast oversize, and used in .226-inch diameter, well lubricated, has given good accuracy at high velocity, or up to 2600 f.s. Some shooters have better luck with Ideal No. 225415, as Wilber did. With 8½ grains No. 2400 in his Hornet it makes inch groups at 50 yards, and 5 grains Unique is even more accurate at its lower velocity. In his Swift he uses 12 grains of old Gallery No. 75 powder behind this flat-nose bullet and it shoots into an inch also. This bullet does as well for him with a graphite base wad as with the gas check for which it is designed. Groups above were 10 shots each. Wilber kills gophers and soft game with it.

HOMEMADE REVOLVER

Bill Johnson, of Georgetown, Colorado, does no commercial work, but his hobby is making guns. The photograph shows a single-action revolver which Bill made recently from a bus axle. He used the splined end which was heat treated, and he found it tough to work, all chips turning blue under his tools. The frame and cylinder and all working parts were made of this steel, believed to be S.A.E. 3450. The guard and backstrap are from an old S.A. Colt, No. 2952, which Bill admired and copied. Note that the top is flat and thicker than the Colt standard and that the cylinder is not fluted. The barrel has a groove diameter of .3086 inch and happens to be 8 inches sawed off an old Krag rifle. All the rest was made by Bill without annealing or drawing the tough metal employed. It must have been a terrific task; one requiring great patience. He wanted the gun strong enough for the .30-caliber M1 Carbine cartridge which develops rifle pressures, individual loads going pretty high for a handgun.

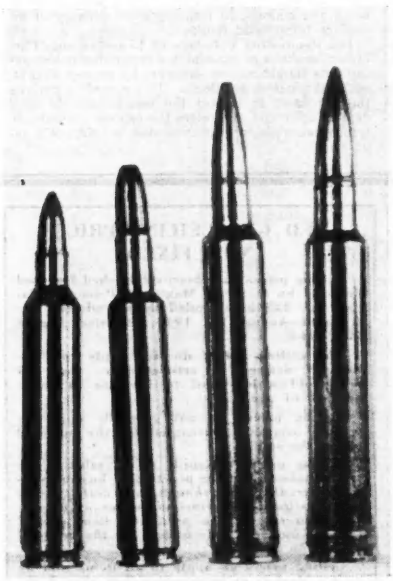
Although Bill got by safely in chambering and shooting a .32-20 Colt for and with the Carbine cartridge, he knew it might blow, as some converted guns had, with certain "hot" lots of the Carbine ammunition. Hence the ultra-tough homemade job described above. His accuracy test at 40 yards gave a 2⅜-inch horizontal and an inch vertical for the best group. He found the blast worse than that of

Bill's Thirty-Caliber Revolver

the .32-20 (which is plenty bad) and the recoil like that of the .45 Colt, but sharper.

His handload was milder in pressure and held up well over outdoor ranges. This was the Winchester 115-grain .32-20 soft-point bullet and 7 grains of Unique with W.R.A. No. 116 primers. For a penetration test he used new mail-order catalogues in dry condition and arranged them firmly packed. His handload penetrated 2½ inches and the soft-point bullet tore a wide hole of 1¾ inches at a depth of 1¾ inches. The 115-grain Lubaloy Coated bullet penetrated 2¾ inches with the same tearing effect. The range was 50 feet. At this range, the Carbine load penetrated 4¼ inches and broke the paper 2 inches beyond that. At 80 feet the penetration was 4 inches with the same paper-breaking beyond that. The total penetration in seasoned pine, at 50 feet, was 17⅝ inches. The first 12 X 12 measured 11¾ inches, and there was a 4 X 12 18 inches behind it, the bullet sinking 2⅛ inches deep in a third timber. A bobcat hit at about 100 yards scaled a cliff after being hit.

Bill said his chambers take the standard factory .32-20 loads also. He says he improved the Colt hand spring system by using a small coil spring and a pivoted strut. The finish revealed in the picture was obtained by sand-blasting to get a dull surface before bluing with Jim Howe's No. 1 formula.



GOLD-PLATED CARTRIDGES

Jack Ashurst, of Pasadena, Calif., pulled a new one on us with gold-plated samples of his wildcat cartridges. Cartridge collectors might be interested in trying the stunt, if it is not too expensive. Jack had the gold on both case and seated bullet. It makes a thin finish which will not tarnish, and it is beautiful. In fact, it looks as good as gold, no punning. We use clear weatherproof lacquer, but it precludes miking on account of increasing all diameters. The four Ashurst wildcats in the picture are, left to right, his .224-'06, .257-'06, .270 Belted Magnum, and .300 Belted Magnum. The latter two are gold plated and will show up the finish of the others in a few years.

BAKER SHOTGUN SAFETY

Ralph H. Baker, of Independence, Mo., installs his patented thumb safety on any Browning-type autoloading shotgun for southpaws as well as others. It is a machine-shop job and it is necessary to mail the receiver to Baker. But write to him first, for shipping instructions.

The Baker safety is operated by a lever ending in a neat knob for the thumb. Normally, or for right-shoulder shooters, it is on the left side of the receiver with the knob at the edge in "safe" position where the small of the grip joins the metal. It kicks or snaps "off" from a light jab by the thumb. Those who grasp over the stock can kick it "off" by straightening the thumb. Those who hold their thumb along the curve of the receiver can do the same, or drop their thumb to the knob. The knob is knurled to avoid slipping. When pulled back a metal rod blocks the trigger, and it cannot be fired until the knob is pushed ahead.

ELK-COUNTRY EXPERIENCES

Warren Leland, who heads out from the Gallatin Ranger Station in Montana, had his shot-out Swift barrel replaced with one for the .257 Roberts. He handloaded the 117-grain Core Lokt bullet and the 125-grain Barnes. Tried in the same block of wood, the Barnes bullet broke up "considerably" while the Core Lokt "hung together with a good mushroom." The 117-grain bullet worked well on coyotes but did not "put them down immediately." The 100-grain Core Lokt was best of all on these animals. The 100-grain, Winchester, pointed, expanding bullet opened up too much on coyotes, but it was a better killer by far than the 87-grain open point. Both the Core Lokt bullets worked well when tried on crippled elk.

On his patrol job during the last hunting season, he had a few amusing experiences, taking note of the hunters' arms and loads for deer and elk. The predominant .30-30 seemed to work all right on close shots; "in the chest they worked very well. But on other hits, not so good." A hunter with a Model 1895 Winchester had split-neck loads with the bullets loosely resting on the powder charges. Two youngsters, caught with a .219 Zipper, told him, "It's a good elk gun. The guy I borrowed it from killed nine with it last year." A lad with a .25-20 had killed a legal doe with a neck shot and was proud of his gun although he had to pursue the animal down the mountain for a second hit to stop it. Leland found his 440 Weaver inadequate in optical performance and longed for a bigger and better 4-power.

TRADE DOPE

Seegert .30 Wildcat, on the .348 W. case, has been relinquished by L. E. Wilson for development nearer home (by gunsmith Gradle) according to Fred A. Seegert, of Santa Barbara, California.

* * *

Lt. R. D. Holley, Naval Engineering Officer, writes us he is responsible for the gun and dope credited to R. D. Hughes, of Bremerton, Wash., in our October, 1943 Dope Bag. It could be.

* * *

Lee Lassner, of Guarantee Neon Sign Co., Pasadena, Calif., will electro plate your cases or gun parts with gold chloride at small cost, according to word from Jack Ashurst, who lives in the same town.

* * *

Ralph H. Philbrick, of the Flintlock Antique Shop, Natick, Mass., lists 320 items in his new stapled catalogue of "Antique and Modern Arms." The price is two bits.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising plus disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (examples: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning high power). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—exception: a phrase such as "write for catalog" or "details on request" may be used when listing quantities of similar merchandise or real estate.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning reasonable hard surface, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraphic replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privileges. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including individual sales of ammunition (handloads and government calibers excepted). Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machines or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks.*

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing. Spell out all descriptive words; avoid abbreviations.

15. Closing Date: The closing date for all advertisements is the 5th of the month preceding month of issue. However, the *volume* of advertising we can publish monthly is limited and the quota is usually filled prior to the closing date. Ads will be accepted in the order received.

FOR SALE

FOR SALE—PREHISTORIC STONE TOMAhawk, 75¢. 100 good prehistoric arrowheads, $3.00. 10 tiny perfect bird arrows, $1.00. Spearhead 25¢. List free. Caddo Trading Post, Glenwood, Arkansas tf

PATENTS—LOW COST. EASY TERMS. BOOK and information free. Highest references. L. F Randolph, Dept. 370, 416 5th St., Washington, D. C. tf

CASWELL—TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog 5¢. 100 ancient arrowheads $3.00. H. Daniel, Hot Springs, Ark. tf

$—RAISE GIANT CHINCHILLA RABBITS—$ Low cost. Large profit. Free folder. Willow Brook Farm, R82, Sellersville, Pa. tf

INDOOR TARGET CARRIERS—FOR CLUB, police or school ranges. Trolleys are packed in units of two, consisting of: eye bolts, nuts, pulleys, rubber stops, screw hooks, 16" sheave wheels, bearing plates, set screws, washers, wing nuts, galvanized wire, braided cord, crank shafts, and round head screws. Ready to install and packed two in a crate. Priced only $5 per pair. F.O.B. NATIONAL RIFLE ASSOCIATION, WASHINGTON 6, D. C. tf

RELOADERS: HUNTERS! LOAD OUR RIFLED Lead Slugs in your own 12-gauge shotgun-shells. One dozen, with wads and complete directions for loading . . . including postage and packing . . . $2.10; Supply limited; order today. THE KAILING CO., 8026 N. Division Road, Milwaukee 9, Wisconsin. 11-44

GUN AND AMMUNITION LIST FOR STAMPED self-addressed envelope. Alliance Gun Exchange, Alliance, Ohio. 11-44

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics; catalogue 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

FOR SALE—DEER RIFLES, WINCHESTER 94 take down .38-55, very good, $30.00, Winchester 94 takedown .32-40, excellent, 40 cartridges, $35.00, Marlin 94, .25-20, very good, 100 cartridges, $30.00, Winchester 95, 405 takedown, very good, $45.00. M. Samuelson, Amityville, N. Y.

USED GUN CEILING PRICES NOW FIXED

Ceiling prices have been established for used firearms by O. P. A. Maximum Price Regulation No. 429 as amended by amendment No. 4 dated August 24, 1944, effective August 29, 1944.

The ceiling prices do not apply to "antiques," defined as articles more than 75 years old which tend to increase in value because of age.

Ceiling prices do not generally apply to articles originally purchased for the personal use of the seller.

Ceiling prices *do* apply to all sales if the seller makes a regular practice of buying, selling or trading *even though such activity does not constitute his principal source of income and even though the particular item offered for sale was originally bought for the personal use of the seller.*

Ceiling prices *do* apply to all items sold by agents, dealers or auctioneers *even though the owner purchased the guns solely for his personal use.*

Used firearms are divided into two classes by the price regulation. Class "A" includes articles from which "no part is missing necessary to make the article fully useful" and which "can be used by the consumer for the purpose intended without further repair." Class "B" includes all articles which fail to meet the requirements for Class "A."

The legal ceiling price for used firearms in Class "A" is three-quarters (75%) of the retail price of a similar gun *new*. Class "B" items may not be legally sold at more than one-third (33 1/3%) of the price when new.

Dealers and gunsmiths wishing to sell remodeled or rebuilt firearms involving labor and material which run the cost above the established ceilings may appeal for authority to charge a specific higher price for each such weapon.

This Maximum Price Regulation also applies to "all kinds of athletic equipment and sporting goods" including fishing tackle, hunting knives, game traps, binoculars, telescopes, golf bags and clubs, toys and games, etc.

All inquiries regarding this regulation should be addressed to Mr. Chester Bowles, Administrator, Office of Price Administration, Washington, D. C. Please do not write Headquarters of the National Rifle Association. This regulation invades a field so involved that only an all wise bureaucrat can decide what is Class "A" and what Class "B"; who is covered and who is not; what is the price "new" of a gun which has been remodeled two or three times, etc.—C.B.I.

ADULT BOOKS FOR YOUR PERSONAL LIbrary. Illustrated sample and catalogs, 10¢. Alstone, 304, Lunenburg, Mass. tf

ENFIELD BULL GUN .30-'06 WITH MALCOLM 8-power scope mounted, very good, $125.00. C.O.D. or money orders only. T. H. James, Box 37, Imlay, Nevada.

REMINGTON GAMEMASTER, MODEL 141, 35 caliber checkered grip. Good to excellent. 2 boxes shells, $75.00. Winchester 95 Model, .30-40, good condition, equipped with sling, new Weaver 330 tapered post, 2 boxes shells, $90.00. Colt New Service, .38-40, 7½" barrel, ivory grips, excellent to new condition, holster, $55.00. Colt Army Special .32-20, 6" barrel, very good, holster, $42.50. Lemaire binocular, 8-10-12X, good, case, $80.00. Stamp for list. Ray Ferringer, Mayport, Penna. 10-44

FOR SALE—SHOTGUN SHELLS—OUR 12-gauge 5 & 6 shill heavy reloads are again available. Limited supply. Shells 10¢ each, OPA established ceiling. M. O. Please. Jim Clark Sporting Goods, 2029 W. Fondulac, Milwaukee, Wisconsin. 12-44

SHOOT MUZZLE GUNS—BLACK POWDER—F, FF and FFFg, 6¼ lbs., $4.00. Bureau of Mines license required. Bird shot (soft) 5 lbs., $1.00; 25 lbs. $4.75; Bird shot (chilled) 4½ lbs. $1.00, 25 lbs. $5.00. Buck shot—.30, .32, .34, .36, .38, .40, .42, .44, .48, .50, .56, .58, 64, .66, .68—5 lbs. $1.00. 25 lb. bag, $4.75. No caps . . . expect a supply when invasion is over. Nipples for rifles and shotguns—¼'—28 thread $—$1.00. Powder measure—charger—adjustable zero to 100 gr. $3.50. Nipple wrenches—rifle, pistol, musket, each 75¢. Bored and rifled barrels by Buhmiller, for round balls turn in 48", .30 and .375 caliber, outside in round, $16.00. Some choice rifles in half and full stocks, $30.00 to $125.00. E. M. Farris, N&W Ry., Y.M.C.A., Portsmouth, Ohio. Join The National Muzzle Loading Rifle Ass'n. and read MUZZLE BLASTS, $1.50 per year. tf

220 SWIFT WINCHESTER 70, GOOD, WITH 330 Weaver scope, 6X Litschert attachment, Redfield mount, 45 loaded cartridges, 38 unused primed cases, 100 Sisk bullets, 100 primers, 2 cans 3031 powder, Ideal reloading tools, all for $185.00. 30-'06 Griffin & Howe Bull Gun, good, $150.00. Bausch & Lomb prismatic spotting scope with three eyepieces and tripod, $85.00. Wm. F. Schutte, Benson Bldg., Beaver Falls, Penna.

FOR SALE—COLT .38 SPECIAL OFFICERS' model 6" heavy barrel, Patridge sights, grip adapter, perfect, with sheepskin lined holster. First $75.00 money order. No c.o.d. Russell Yawger, 142 Arlington, Paterson, New Jersey.

STITH MOUNTS —The *Vital Link*

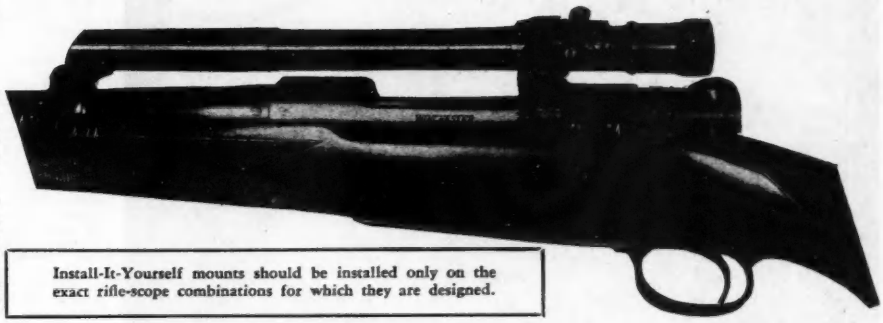
Between Your Rifle and Your Scope

A GOOD rifle is a precision instrument . . .

So is a good scope.

When you put them together with a Stith Mount you have provided the VITAL LINK which will do justice to your precision equipment.

STITH INSTALL-IT-YOURSELF MOUNTS are designed and precision-made to fit individual rifle-scope combinations. They are rugged, compact, dependable. The steel shield protects and reinforces the scope. The bases are wide-spread for balanced strength.



Install-It-Yourself mounts should be installed only on the exact rifle-scope combinations for which they are designed.

Stith Mounts *Are Good* - - and they *Look The Part*

INSTALL-IT-YOURSELF MOUNTS, made for these combinations are priced $12.00:

WINCHESTER MODEL-70, for Weaver 330, Weaver 440, or Lyman Alaskan.

SAVAGE MODEL-99, for Weaver 330, Weaver 440, or Lyman Alaskan.

WINCHESTER MODEL-75 SPORTER, for Weaver 29S.

REMINGTON MODEL-513-S, for Weaver 330 and 440.

SAVAGE MODEL-23, for Weaver 29S. (This mount is priced $9.90).

STITH *STREAMLINE* MOUNTS, made for practically all combinations not listed opposite, are sold only for installation in our San Antonio shop. Experts fit them with precision, designing special parts where needed. The rifles are range tested and returned to you for the final adjustment to your own eye. *PRICES ON REQUEST.*

M. L. & M. J. STITH • • 500 TRANSIT TOWER • • SAN ANTONIO 5, TEXAS

FOR SALE—COLT AND REMINGTON CAP AND ball revolvers; muzzle loading rifles, etc. A request brings a list. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, California. 2-45

22 AND 32 BULL DOG REVOLVERS, POOR condition but shootable, $8.00 each. S&W .45, 1917 reblued, 50 shells, $42.50. Colt .44-40 Frontier Six Shooter, good with 50 shells, $42.50. Colt .38 Long D. A., poor, $7.50. Two deep sea reels, $5.00 each. Jack O'Shea, 5643 Irvine Avenue, North Hollywood, California.

REVOLVERS — AUTOMATICS — SHOTGUNS — Rifles—with ammunition. Colts—Smith & Wessons — Harrington-Richardsons — Woodsmans — Hi-Standards — Winchesters — Remington — Browning — Springfields and others. Decoys, luggage, hunting and pocket knives, flashlights, watches. List 10¢. Rudolph's, Atchison, Kansas.

16-GAUGE, .25-20 THREE-BARREL GUN, FAIR, $75.00. 45 New Service Colt 7½", good, $45.00. 32 automatic, good, $25.00. Others, list 12¢. Want antiques. Robert F. Enewold, 7921 N. 39th St., Omaha 12, Nebraska.

FOR SALE—45 COLT AUTOMATIC WITH 22 conversion, both excellent. Extra new .45 barrel, link and pin. Extra clips and 250 rounds ammunition for each. Heiser holster, $155.00. Savage M19, new, $45.00. 38 Colt Official Police 6", blue, walnut stocks, perfect, $65.00. 30-30 Winchester 94, very good, $40.00. 38 Colt Army Special, good, $35.00. Krag .30-40, fore-end shortened, very good, 60 rounds, $40.00. Money orders only. W. G. Stainton, Anderson, S. C.

AMMUNITION: NEW CATALOG OF ANTIQUE and modern firearms—send coin 25¢. .38 Special wadcutter, reloads $4.50 per 100. Winchester cartridges .32 S.L. soft point $5.27 per hundred. .38 Rim fire Winchester revolver cartridges $2.00 per hundred. .38-56 soft point rifle cartridges $7.82 per hundred. 6.5 Berreta Italian Army rifle cartridges, metal point, $10.00 per 100. 30 Govt. 1903 soft point 220 gr. Western cartridges, $10.00 per 100. .30-06 metal patch 172 gr. late issue F.A. cartridges $10.00 per 100. 7.62 metal point cartridges $9.63 per 100. .303 British metal point cartridges $12.00 per 100. .38 Automatic pistol cartridges, $4.50 per 100. 405 Winchester Staynless, $12.00 per 100. .45 automatic pistol cartridges, $5.37 per 100. Forward money with order, no c.o.d. shipments. Public Sport Shops, Dept. R-75, 13 So. 16th St., Phila., Pa.

FOR SALE—BULLETS ONLY (NOT LOADED cartridges). 44-40, 160 grain, Remington Hi-Speed, Hollow Point, $3.50 per hundred, $29.75 per thousand. 7mm. Mauser, 175 grain soft point, $3.25 per hundred, .38 Special, metal patch, lead bearing, $2.50 per hundred, $22.50 per thousand. 38-55, 255 grain S.P. $3.75 per hundred. Sisk 42 grain Wartime (same as 41 grain Super-Lovell) .223" or .224, $2.75 per hundred. Sisk 54 grain Wartime (same as 55 grain express), .224" only, $2.75 per hundred. Either type $25.00 per thousand. Be sure to add postage and insurance when Parcel Post shipment is requested. Robert Haelig, Boundbrook, N. J.

SEND THREE CENT STAMP FOR LATEST list of Modern and Obsolete Cartridges. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—REMINGTON 12 GAUGE, OVER and under, trap grade model TC ventilated rib, selective single trigger, automatic ejector. FF choke, full pistol grip, Morgan adjustable recoil pad, beautiful selected stock and full beaver forearm, oil finish, measurements 32, 14¾, 1⅝, 1¾, with gun, custom made heavy leather two gun blanket roll case. Gun and case perfect. $245.00. O. N. Gregg, 4241 Troost, Kansas City, Missouri.

FOR SALE—52 STANDARD, FACTORY SIGHTS, Linden stock, trunk, excellent, $100.00. WANT—Triple lock. Meldrum, Chicago Avenue, Waukesha, Wisconsin.

FOR SALE—MODEL 61 WINCHESTER, EXCELlent, 100 Kleanbore L. R. included, $52.00. Laurence Lowry, 18 Beltran Street, Malden 48, Mass.

FOR SALE—45 COLT AUTOMATIC, GOOD CONdition, 100 cartridges, $60.00. Winchester 92, .32-20, bluing on receiver worn, new barrel, 100 cartridges, $35.00. Money order please. WANT—Winchester M70, .30-06 or Hornet with ammunition. John Neuschafer, Ellsworth, Kansas.

FOR SALE—REMINGTON SPORTSMAN, 20, 26 bbl., Poly Choke, ventilated rib, excellent, $100.00. W. W. Martin, 523 Pike St., Parkersburg, West Va.

KILBOURN HORNET, WINCHESTER 70 REDfield Jr., Weaver 1x, perfect, fifty cartridges, 100 primed empties with parts for Belding Mull 28 tool, $135.00. D. O. Pierce, 1819 Wood, Alameda, Calif.

FOR SALE—38-55 SAVAGE, GOOD IN AND OUT, 2 boxes ammunition, $40.00. Robert H. Cook, 407 May Street, Fremont, Ohio.

FOR SALE—20-GAUGE L. C. SMITH DOUBLE Field Grade 28" M-F, excellent, $67.50. K. J. Polkinghorn, 9 S. Kentucky Avenue, Atlantic City, New Jersey.

FOR SALE—STANDARD WINCHESTER 52 Speedlock, excellent to perfect, 4X Fecker scope with mounts, O'Hare case, Jostam Monte Carlo pad, Lyman 48J & 17. Price $135.00. F. J. Croissant, 154 Jay, Albany, N. Y.

FOR SALE—22 H&R PREMIER, NEW 2" BBL. (50 rounds through it), new rubber pocket grips, otherwise fair, $25.00. Cpl. R. S. Watkins, Box 1135, Ephrata, Washington.

22 CALIBER BULLETS MADE FROM THE short cases, $18.00 per 1,000. Bullets made from the long cases $20.00 per 1,000, all copper used. Al Weber, Rt. 2, Box 111, Lodi, California.

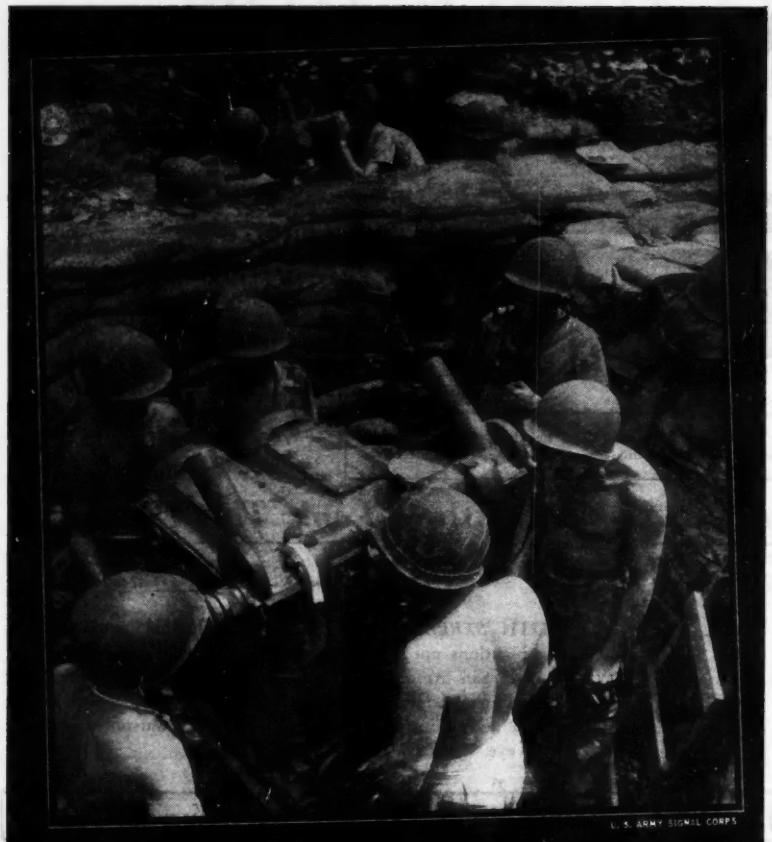
FOR SALE—REMINGTON AUTOMATIC, 12-gauge, 26-inch, modified, Hawkins, very good, $75.00. Krag, arsenal remodeled, sling, excellent, poor in, $35.00. Stevens 1864 tip up .22 rifle, good, poor in, $10.00. G. M. Lyon, 3195 Griest Avenue, Cincinnati, Ohio.

FOR SALE—EXCELLENT WINCHESTER 52 H. B. #61693B Marble Goss, Lyman 77, Special box for sights, sling pad, clamp, tension equalizer, glove, layout box, Merit Iris disc, sheepskin case, 10X coat size 38, $150.00. Colt .45 automatic completely rebuilt for target, ground barrel, fitted bushing, slide and trigger, etc. Sand blasted top of slide and sights, $125.00. E. K. Miller, 416 Wellesley Rd., Phila. 19, Penna.

FOR SALE—WINCHESTER M64, 24", .30-30, excellent, fired 10 times, 2 boxes fresh factory 170, $75.00. E. C. Brown, 531 N. Lorraine, Wichita, Kansas.

FOR SALE—30-40 KRAG CUSTOM SPORTER, heat treated action, 24" barrel, Redfield receiver and ramp sights, standard dimensions, pistol grip, checkered stock, excellent condition, three boxes 180 grain factory cartridges, $67.50. R. P. Anthonisen, 151 Summit Avenue, Buffalo, N. Y.

FOR SALE—SAVAGE 23D SPORTER, HORNET 440S, Weaver scope, Lee Dot, B mounts and sling. Gun excellent, scope and mounting perfect. Price $92.00. 5 boxes factory ammunition @ $1.75 per box. Edgar H. Thompson, 1501 13th St., Altoona, Penna.



"Fire Control"

Fire control instruments shown in action in New Guinea. Photograph by U. S. Army.

VITAL PARTS are these delicate precision instruments for observation and fire direction, insuring perfect functioning under the roughest usage and changing climatic conditions.

These rugged and highly precision military optical instruments produced by Argus for the Armed Forces are the forerunners of better and finer precision telescopic sights and observation scopes for the peacetime sporting rifleman.

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Cameras and Optical Instruments

ANN ARBOR MICHIGAN

ARGUS, INCORPORATED ANN ARBOR, MICHIGAN

1897 WINCHESTER TWELVE-GAUGE RIOT gun, very good, sling, 100 shells various loads, only $40.00. Roth, 2884 Ash, Denver, Colo.

FOR SALE—LEFEVER 12 X 30 F&M, SINGLE trigger, excellent, 50 shells, first $65.00 money order. Gale J. Houtz, 905 W. Van Horn Road, Independence, Mo.

FOR SALE—PERFECT CUSTOM ENFIELD .30-'06 Sporter, selected barrel, speed action, cocks on opening, magazine altered, Redfield 70, oiled Bishop stock, 100 cartridges, absolutely factory condition throughout, $75.00. Weldon Pavitt, 5050a Potomac St., St. Louis 9, Mo.

FOR SALE—SAVAGE 99 E. G. 300 CALIBER solid frame, Weaver 330 scope, Stith mounts, 50 cartridges, perfect, used one season, $140.00. Ralph D. Moore, 105 Prospect St., Jamestown, N. Y.

SELL—KRAG 30", GOOD TO VERY GOOD, CUSTOM stock, cheekpiece, checkered pistol grip and forend, grip cap, reblued, Redfield rear, ramp front, leather sling, with 500 rounds 1917-18 issue Remington .30-40 clean cartridges, $80.00. Claude F. Tyner, Sweetser, Indiana.

FOR SALE—WINCHESTER MODEL 53, 32-20, new, 50 fresh H.P. cartridges, $50.00. Savage Model 23B, Speedlock, 25-20, new, 50 fresh H.P. cartridges, $45.00. Winchester Model 92, 32-20 and 44-40, full length, new, $45.00 each with 50 fresh hunting cartridges. Winchester Model 1886, caliber 38-56 (45-70 necked down), appearance v.g. otherwise perfect, 40 fresh hunting cartridges, $45.00. Mauser model 98 Sporter, 24" barrel, cheekpiece stock, sling, military sights, 50 fresh S.P. cartridges, excellent, 8mm. $75.00. Model 98 Mauser, 8mm. military stock reshaped to Sporter, full length barrel, issue sights, sling, 50 fresh cartridges, v.g. $40.00. Standard Arms Company, auto-loading rifle, caliber .30 Remington Rimless, v.g. with 100 fresh S.P. cartridges. $75.00. Colt Lightning Repeating rifle, caliber 38-40 with 100 cartridges, fair to good, mechanically perfect, $30.00. Robert Haelig, Boundbrook, N. J.

FOR SALE—AMMUNITION: 40 BOXES (FIFTY each) 22 Winchester centerfire for single shot Winchester or 22 Hornet, $2.00 box. 1000 Winchester primers #111, new stock, $1.25 hundred. 200 Pedersen 30 cal. 18 R.A.-H automatic shells, rare collector's item, the lot $50.00. O. N. Gregg, 4241 Troost Avenue, Kansas City, Missouri.

FOR SALE—KODAK BANTAM SPECIAL, F:2 Ektar lens, Supermatic shutter, field case, excellent, 10 rolls Kodachrome, 25 Super XX, 10 Panotomic, $150.00. WANT—25 caliber 100 or 117 grain bullets. James A. Greene, Rockwood, Tenn. Member.

FOR SALE—250-3000 SAVAGE RIFLE, TAKEdown, .410 barrel, peep sight, all fair, 29 rifle shells, 25 .410 shells. First $50.00 money order. O. R. Kroell, 5 Wolcott Road, Winchester, Mass.

FOR SALE—38 ARMY SPECIAL, GOOD, 100 cartridges, $45.00. Mitchell Miller, Zenith Dredge, Duluth, Minn.

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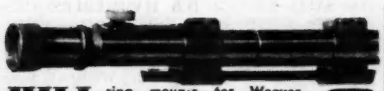

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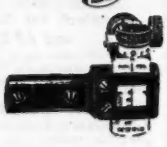

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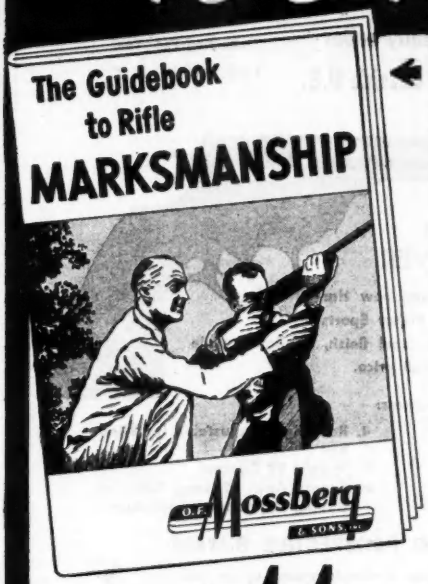

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HOSSTHEEF GAYZETTE: RARE GUNS, MUZZLE loaders, send self addressed, stamped envelope, marked plainly #3, or #4. #3 out now, #4 soon. The ole hosstheef just dug up another load of cast iron, silver, and gold mit roobies and rust. Wanted: entire collections or superior single items. Paying with bucks not bellyaches. Miller Bedford, New London, Ohio.

FOR SALE—ONE SPRINGFIELD ROCK ISLAND, Arsenal, outside good, bore fair to good, $40.00. John McIntyre, Shirley, Mass.

FOR SALE—WINCHESTER 70, .270 STANDARD. excellent, fired 50 rounds, blocks, Whelen sling, beautiful veneer trunk, Pacific H.S. dies, 500 primers, 350—100 & 130 gr. bullets, 50 unfired cases, 40 factory loads, extras, $175.00. Winchester 52 standard, excellent, 17A, Marble-Goss extension rear, adjustable swivel base, Fray-Mershon plate, 1000 EZXS, 500 Peters target, $100.00. D. Roberts, P. O. Box #23, New Dorp, New York.

FOR SALE—SMITH MAGNUM 12 IDEAL GRADE auto ejectors, 30" barrels M&F leg of mutton case, excellent $100.00. Remington 16 gauge F&F Damascus 26" barrels, auto ejectors, very good to excellent, $55.00, Collection items. Police Positive 32 caliber revolver, 6" barrel, large pearl grips, excellent, $37.50. Single shot 12 gauge full choke, 30" barrel, box of shells, poor but in shooting condition. $7.00. Money order, no C. O. D. Member. L. M. Bayne, Box 121, Summit, New Jersey.

FOR SALE—12 GA. ITHACA 32", F&F, SMOKEless steel barrels, oil finished, pistol grip, crotch walnut and forearm neatly checked, front gold and rear ivory sight, good in and out $55.00. 16 ga. Fox double 28" proof tested barrels, F&M, chamber for 2¾ shells, excellent with 3 boxes shells, $60.00. 12 ga. Winchester lever action pump, good out, fair inside, $25.00. W. J. Nelson, Amboy, Minn.

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FOR SALE—LARGE ASSORTMENT ANTIQUE firearms, swords, powder horns and flasks. Stephen Van Rensselaer, Mt. Kemble Ave., Morristown, New Jersey. 2-45

FOR SALE—SELLING MY PETS—ALL EXCELlent to Perfect. 30-30 Winchester 94 deluxe, medium heavy 20" barrel, action highly engraved in relief with standing buck on both sides, beautiful circassian stock and forend. D.S.S. with Whelen sling, 6 boxes 170 gr. ammunition, sheeplined buckskin case, a perfect deluxe Deer rifle, $125.00. 30-06 Sedgely Springfield Sporter, LEFT-HANDED ACTION, Zeiss Zielklein scope, pointed post & cross-hair, Redfield Junior mounts. D.S.S., Whelen sling, 20 cartridges & sheeplined buckskin case, $185.00. 250-3000 Savage 99T, equipped with Weaver 330 cross-hair scope and Stith mounts, 16 boxes new ammunition, D.S.S., Whelen sling and sheeplined case, $185.00, 348 Winchester 71 deluxe, peep rear sight, 24" barrel, 15 boxes 200 and 250 gr. ammunition, D.S.S. Whelen sling and sheeplined case, $175.00. 22 Marlin 39A, deluxe, equipped with 440 Weaver cross-hair, B mounts, deluxe checkering on forend and stock. 4000 .22 L.R. high-speed hollow point ammunition, sheeplined case, $175.00. Custom deluxe 2R Lovell on B.S.A. Martini action, conversion by O. H. Elliott, medium heavy 28" barrel, Lyman 17A front and extension rear peep, scope blocks and Lyman Junior Targetspot, 6X, with mounts, 150 rounds ammunition D.S.S. Whelen sling and sheeplined buckskin case, highly figured and beautifully checkered curly flame-grain maple stock and forend, a highly accurate deluxe chuck rifle, $175.00. Rare collector's piece, Holland & Holland Swinburne Martini, with cocking hammer and safety on right side of action, fancy circassian stock and forend, medium heavy 26" barrel with full-length solid matted rib, folding leaf express rear sight, chambered for 400 Express cordite cartridged, would make excellent chuck or big game rifle if relined and rechambered, $100.00. Browning O/U skeet boreing, 26" barrels, ventilated rib, ivory sights, S.S.T. 7 boxes #8 & #9 shells, sheeplined buckskin case, $175.00, Browning O/U trap gun, 30" barrels, ventilated rib, bored F&M, 7 boxes trap loads, S.S.T. sheeplined buckskin case, $175.00. Browning auto. Sweet Sixteen 26" barrel, solid raised rib, Imp. Cyl. bore, ivory sights, sheeplined case, 7 boxes trap loads, a perfect quail or skeet gun, highly engraved, $150.00. Browning auto. 12 ga. 28" barrel, ventilated rib, full choke, ivory sights, recoil pad, 7 boxes trap loads, highly engraved, sheeplined buckskin case included, $150.00. Ansley Fox Trap gun, single barrel, "K" grade, 32" barrel, ventilated rib, ivory sights, full choke, extra fancy checkering and relief engraving, 8 boxes trap loads, sheeplined buckskin case, $100.00. Marlin O/U, 20 gauge, 28" barrels, full and modified, deluxe checkering on forend and grip, 5 boxes #7 shells, sheeplined case, $75.00. S&W K22 4" barrel, King reflector ramp sight installed & sighted at factory, very accurate, 500 L.R. Cartridges sheeplined leather holster $100.00. S&W K38, cxstom made by Doug Wesson for Captain Thomas of U. S. Army, 4" barrel, Special low frame between trigger guard and front strap of grip, eliminating an adaptor, finger stop encasement on back of trigger guard, 15 boxes ammunition, a highly accurate target pistol deluxe, 15 boxes .38 Special ammunition, sheeplined leather holster, $100.00. Carl Zeiss Featherweight binoculars, latest model, deltrintem center focus 8x30, leather case and strap, never used, $150.00. Agfa Reflex deluxe camera, 35mm. F3.5 lens, leather case and strap, 6 rolls hi-speed, $50.00. FIRST MONEY ORDERS RECEIVED WILL GET GUNS EXPRESS PREPAID. Donald B. Adams, 119 Cynwyd Rd., Cynwyd, Penna.

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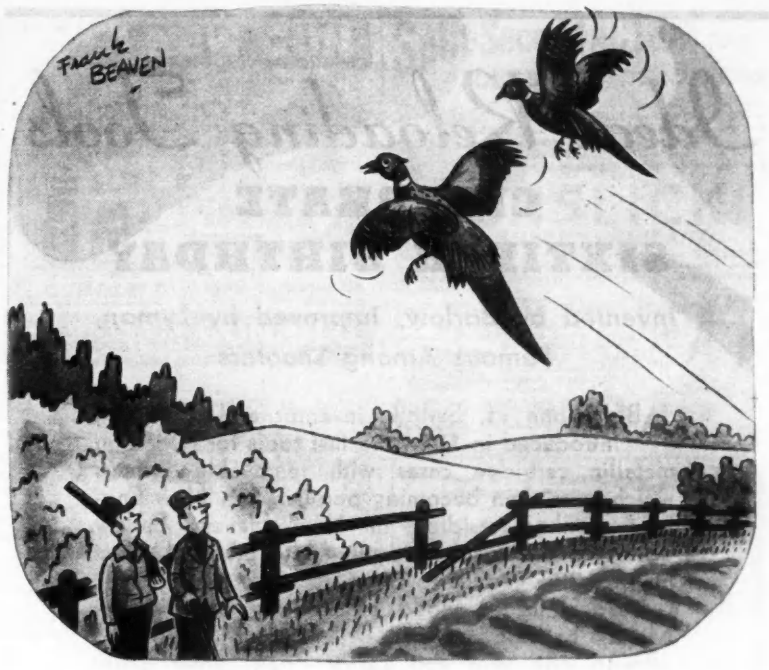

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SELL OR TRADE—9MM. 8" LUGER, TARGET grips, extra .30 barrel, very good, $65.00, holster. Want— Match Target or Frontier. Write K. G. Thomson, 1419 Ashland, Des Plaines, Illinois.

SELL OR TRADE—.32 COLT POLICE POSITIVE, very good, hand engraved, gold trimmed, $50.00. .38 Colt Police Positive, also 4" barrel, excellent, Heiser shoulder holster, $50.00. .45 Army Colt automatic, 1911, dull finish, very good otherwise, holster and shells, $50.00. .35mm. Univex Mercury, 3.5 lens, carrying case, excellent, $45.00. Want good chuck rifle, .257, .218 etc. E. E. Johnston, 1825 Evans, McKeesport, Penna.

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SELL OR TRADE—S&W 357 MAGNUM, 6½", excellent, take $125.00, or want S&W 38-44 excellent and $50.00. Inspection privileges. Member. W. A. E. Mitchell, Greeley, Colorado.

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SELL OR TRADE—.30-06 WINCHESTER M54, 48WJS, sling, excellent, $95.00. 20 ga. Fox MB, perfect, $45.00. 22 Hi-Standard MB 4½", Franzite, perfect, $60.00. 22 Woodsman 4½", perfect, $60.00. 22-32 S&W, 6" excellent, $60.00. 22 S&W K, 6", perfect in very good out, $60.00. New 330S & Redfield Jr. (Springfield) $42.00. Bulletin 10¢. The Sportsman, 327 W. Jefferson, Louisville, Kentucky.

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SELL OR TRADE—NAVY RUBBER BOAT, 2 man, 5x8 ft., with 2 collapsible oars, hand pump, carrying bag, perfect condition, used once, $50.00. Want Remington, 141-35 or Winchester, 70, 257 Roberts, both guns in perfect condition with ammunition. Russell Cardwell, 344 E. Biddle St., West Chester, Penna.

SELL OR TRADE—SMITH TRAP SINGLE TRIGger 12-30" M&F, very good, $125.00, or exchange for excellent 70 Super grade. Marlin pump 25-20 and scabbard, good $35.00, two Winchester 70 30-06 barrels, $22.50 and $25.00. M. G. Pratt, 1133 E. Portland, Phoenix, Arizona.

SELL OR TRADE—LUGER 7.65 AUTOMATIC, 4¾, DWM, VG, box cartridges, $50.00. Colt 45 NM automatic, King sights, VG, $95.00. K22 Masterpiece, fancy grips, excellent, $95.00. S&W 32-20, nickel, 6½, good, $45.00. Want W94 in 30-30, 32 Special, Sedgeley Springfield late 30-06. Star gauge Springfield Sporter or equals. Almon Williams, Berea, Ohio.

SELL OR TRADE—12 GAUGE BROWNING over-under, $130.00, 28" raised rib, excellent, new stock, accept Winchester 30-30 Carbine, same condition, part payment. L. M. Dempsey, 337 Davis St., Huntington, 3, W. Va.

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SELL OR TRADE—WINCHESTER .22 MODEL 61, excellent, 250 rounds, $52.50 or excellent Colt or S&W 22. Mirakel Binoculars 8x24, case $39.50 or excellent Winchester 75 target. Ernest Haeuser, Rugby, No. Dak.

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SELL OR TRADE—.270 BARNES BULLETS 140 gr., 425 @ $6.00, .22 Western 46 gr. O.P. Zipper bullets 250 @ $3.50, 55 gr. Sisk Express bullets 400 @ $4.00, .30 Newton cases, new, 60 @ 6¢ 29S Weaver T mount new, screws, $12.00, Trade .22 L.R.'s. for few boxes 16 ga. shells. Want full length 3/8" scope. Aurand, 340 Logan, Lewistown, Penna.

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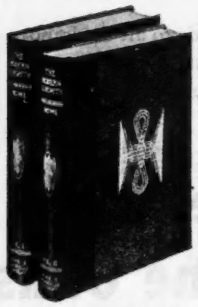

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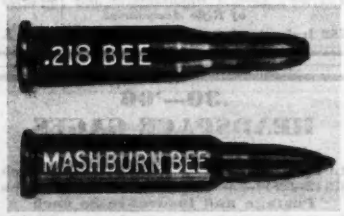

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WANTED—GOOD TO EXCELLENT 250-3000 OR .22 H.P. on 99. R.S. or 99.t, prefer with some ammunition or components, also want some 60 & 87 gr. bullets for 25 caliber, would also consider some 100 gr. Arthur Pulscher, Flandreau, S. Dak.

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WANTED—OBSOLETE AND ANTIQUE FIREarms in working condition single items or entire collection. H. A. Brand, 1008 Ingalls Building, Cincinnati 2, Ohio. 5-45

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WANTED—OBSOLETE SMITH & WESSON PIStols, Colt percussion revolvers, volcanic pistols. Charles Fritz, 2169 Glenside Ave., Norwood, Ohio. 12-44

WANTED—FRANK WESSON 44 CALIBER RIfle, Sharps fifty caliber Buffalo gun. P. D. Sargent, Ankeny, Iowa.

WANTED—9MM LUGER AMMUNITION, STATE price wanted. Mrs. Joseph Grant, Deer Hill Road, Cornwall-on-Hudson, N. Y.

WANTED—BARRELS AND FOREND FOR model 21 Winchester 12 gauge shotgun, 28", left, full or modified choke, right, any bore, perfect inside. J. H. Northrop, Princeton, N. J.

WANTED—M52 HEAVY BARREL, ALSO A .270 rifle, both perfect. Lowell Wood, Route #4, Idaho Falls, Idaho.

WANTED—WINCHESTER 21, 12 GAUGE S.S.T. ejectors, excellent to perfect. Melvin Moore, Kahlotus, Wash.

WANTED—FOR CASH ONLY, ONE 81A WOODmaster 300 Remington automatic with cartridges, will pay up to $150.00. Jim Worthington, Amboy, Washington.

WANTED—38-45 BULLARD CARTRIDGES OR shells, also Winchester Schuetzen stock, Stevens 22-15-60 barrel or rifle, Winchester 45-75 mould. F. P. Sargent, 18753 San Diego, Birmingham, Michigan.

WANTED—WINCHESTER MODEL 70, .220 Swift and Model 12-16 gauge, 28" modified, must be very good or better, cash. Oscar J. Wohleber, 117 West McIntyre Ave., N. S., Pittsburgh, Penna.

WANTED—WINCHESTER MODEL 42, .410 gauge, excellent, with shells. J. W. Maxson, 7815 Ardmore Ave., Phila. 18, Penna. 10-44

WANTED—300 H&H MAGNUM, MUST BE PERfect, describe rifle, some ammunition. F. J. Schini, Box 929, Coeur d'Alene, Idaho. 10-44

WANTED—FAIR PRICE PAID FOR 8MM. Mannlicher Schoenauer, Model 70, 250-3000, 257 Super grade Winchester, S&WK-22, must be excellent to perfect N. R. A. standards. Dr. Russell C. Smith, Box C, Barron, Wisconsin. Life Member. 10-44

WANTED—MARLIN RIFLE MODEL 1895 TAKEdown, pistol grip, barrel immaterial, action and magazine good or better. Ludvig L. Larson, Box 162, Elk Point, South Dakota.

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WANTED—KRAGS, ENFIELDS, SPRINGFIELDS or other high power rifles, also shells for same, will exchange 330 Weaver scope or Log-Log Decitrig new slide-rule or Rotarule slide rule for guns or ammunition. William J. Frewen, 700 West Washtenaw St., Lansing 15, Michigan.

WANTED—GUN CASE FOR SCOPE MOUNTED rifle, also Krag carbine. C. P. Deden, 400 Goldenrod, Houston, Texas.

WANTED—52 WINCHESTER STANDARD IN excellent condition, good peep sights with or without scope, description and price. Abe Neff, R.F.D. #1, Arcanum, Ohio.

WANTED—FOR PARTS, ALL MODELS S&W. Colt Revolvers, any condition, state model, condition, price, all letters answered. Life Member. Allan Radin, 19 Elm St., Cranford, N. J.

WANTED—.280 ROSS AMMUNITION AND REloading tools, will pay $3.00 per box, no split necks. Leslie A. Watson, 1326 Chestnut, Everett, Washington.

WANTED—STEEL FOREND CAP FOR MANNlicher carbine. For Sale Winchester M70, 30-06, new, swivels, pad $125.00. Winchester M54 7mm carbine, custom gu cp stock, excellent, some engraving, $150.00. Browning Lightning, vent. rib, imp. cyl., modified, 28" barrel, 12 gauge, single trigger, recoil pad, perfect, $150.00. Savage RS, 250-3000, Weaver T mount, 29S scope, $125.00, excellent. Leslie J. Atkins, Olean, N. Y.

WANTED—PACIFIC POWDER SCALES, IDEAL, Belding & Mull, or Modern-Bond powder measures. Ideal, Modern-Bond, or Star bullets sizers, Colt Single action cylinders only or complete revolvers in 32-20 caliber, good or better, will pay current prices. Robert Haelig, Boundbrook, N. J.

WANTED—16 GAUGE AUTOMATIC, LIKE NEW, Colts 22 Police Special (prompt replies) George Bever (Guard), I. S. Prison, Fort Madison, Iowa.

WANTED—38-55, 30-40 SOFT POINT OR EXpanding ammunition. Evan Newman, Ona, W. Va. R. #1.

WANTED—FOR CASH WINCHESTER MODEL 12 trap skeet or ribbed barrel grade, 28 gauge, full choke, 26 or 28". Lee Arnold, Marseilles, Illinois.

WANTED—8X50MM. AMMUNITION FOR AUSTrian Steyr rifle, M95, state condition. L. G. Bailey, Ingleside, Contentment Is., Darien, Conn.

WANTED—COLT SINGLE ACTION ARMY FLAT top target model (not Bisley) D.C.M. Sporter as issued. L. B. Griswold, 7715A West Center St., Milwaukee 13, Wisconsin.

WANTED—LATE MODEL 23D HORNET, PERfect to excellent, some ammunition. Excellent Model 70, 270 open sights, reasonably priced, subject to examination. C. W. Ortt, Durango, Colorado.

WANTED—WINCHESTER 1905 AUTOMATIC .35 caliber; S&W Straightline 22; S&W .35 automatic. Eblen, 13 Deer Path, Mountainside, N. J.

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WANTED—WINCHESTER MODEL 70 STANDard grade 22 Hornet, very good condition, cash. Otto Hanschel, 1749 Terrace St., Muskegon, Michigan.

WANTED—KENTUCKY PERC. OR F.L. RIFLES, antique pistols, military rifles, parts, war relics, collections or single pieces. Tom Greeley, 67 Palm St., Newark, N. J.

WANTED—PRIMERS, ALL MAKES & SIZES, any quantity, barrel for Winchester 86, 33 Special, paper patched ammunition & cases. Dewey Bryant, Greenwood Mt., Maine.

WANTED—22 SHELLS, 1. RIFLE. ROBERT J. Palm, Northport, Washington.

WANTED—THE FINEST SHARPS LONG RANGE Creedmoor target rifles it is possible to obtain. Prefer engraved presentation models with all accessories & in fine condition, also want heavy Sharps Buffalo guns 16 lb or more in 45 and 50 caliber & prefer in original condition with tools and telescope sights. M. C. Clark, 169 No. LaPier Drive, Beverly Hills, California.

WANTED—8 POWER WINCHESTER SCOPE, sell 25 Stevens rifle, poor, and 190 rounds ammunition $6.00. Life Member. Marvin Hartman, Baroda, Michigan.

WANTED—SPRINGFIELD BARRELS, 30-06 OR .22. Will pay good prices. I am not a dealer. H. Persons, 403 E. 10th, Anniston, Alabama.

WANTED—RARE AMERICAN AND FOREIGN automatics, revolvers and machine pistols for cash or trade other guns and ammunition. Arthur Leidesdorf, Elberon, New Jersey.

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WANTED—.38 S&W HAMMERLESS, HAVE Ideal loading tool .38 S&W for trade. C. M. Pickel, Jr., Harriman, Tennessee.

FOR SALE—22 HOME MADE JACKETS. BULlets, mixed weights from 40 to 60 gr. @ 1¢ each and some 250-3000 hulls made from 30-06 cases @ 3¢ each, some 50 gr. 22 homemade jackets bullets sized to 224, @ 2½¢ each. Will trade some 22-3000 Lovell hull & 25-20 SS hulls for 8½ primers. Want 22 copper hull only and 22 high power or 25-35 hulls. Want Mauser 98 action or Springfield action or Enfield action with late number. R. W. Crumrine, Clay Center, Kansas.

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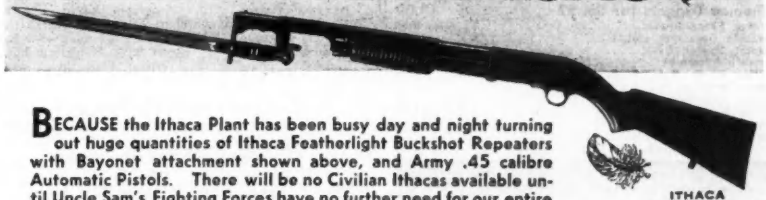

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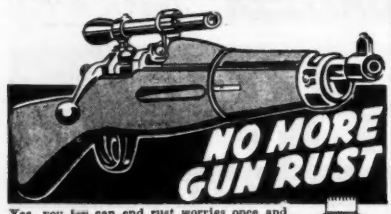

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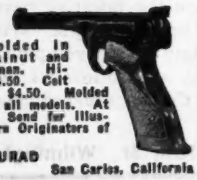

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WANTED—S&W TRIPLELOCK TARGET, STATE serial No.; Hi-Wall for action; describe fully. K. H. Woods, 1019 Rowland, Kansas City, Kansas.

WANT—PACIFIC DIES & DECAPER, FOR 250-3000 and 22 H.P., also want some 25 caliber bullets. Arthur Pulscher, Flandreau, S. Dak.

WANTED—SMALL RIFLE PRIMERS, WINCHESter 116, Remington 6½, 2R cases of same make. Wayne Overholser, 718 Clark Ave, Piqua, Ohio.

WANTED—SERVICE MAN URGENTLY NEEDS barrel for 7.63mm. military Mauser pistol, good or better. 25 automatic ammunition. M. Sgt. S. Kerksis, % Mrs. Willis Smith, Regal Hotel, 126 Ellis, Atlanta, Ga.

WANT—W94, 30-30, LATE, SEDGELEY-SPRINGfield 30-06, late, Springfield or Enfield sporter, Winchester 70-06, W54-06, Colt 25 automatic. Almon Williams, Berea, Ohio.

WANTED—EXCELLENT, SMITH & WESSON .44 Special 6½ barrel, heavy frame, adjustable Patridge sights. Pacific dies, .44 Special, 38 Special & 250-3000. Will trade 5000 .22 L.R. R. E. Springer, Corcoran, California.

WANTED—270 OR 30-06 RIFLE WITH 330 Weaver scope and ammunition, new condition. Wm. Otte, Cedar R.#1. Michigan.

WANTED—50-70 SPRINGFIELD CARTRIDGES, also some 45-70 cartridges. Edwin Sigler, 616 North Topeka, Wichita, Kansas.

WANTED — WINCHESTER S.S. ACTION OR rifle, original Winchester Schuetzen stocks, Arms and the Man, Old gun catalogs. W. R. Miller, Brookville, Ohio.

WANTED—MAUSER, 8MM. MODEL 88, KAR, also clips & ammunition for same & 12 ga. Geha. State condition & price in first letter. John Miller, Jr., 3605 Burgess, Flint, 5, Michigan.

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WANTED—GUNS MADE BY A. M. CONE OF Corry, Penna. Send description and price. M. E. Cotty, 219 Eastern Avenue, Taft, California.

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WANTED—COLT SINGLE ACTION CYLINDERS, caliber 32-20, good or better, also 32-20 Colt Single Action revolvers, condition of barrel immaterial. Please quote price, cash waiting. Robert Haelig, Boundbrook, N. J.

WANTED—FOR CASH: KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

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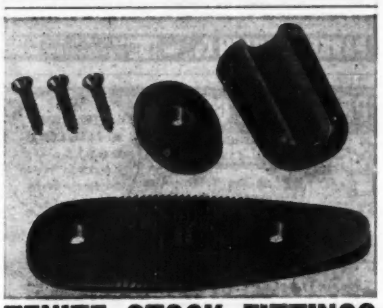

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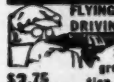

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